FIGHTING WORDS

IT execs Novell slam Microsoft CEO Steve Ballmer's Linux liability claims. PAGE 6

DEPLOYMENT HEADACHES

Robert I. Mitchell says Office 2007 has something in common with his closured vacuum cleaner mant as

.



For years, pundits have predicted the arrival of "smart spaces" like Bill Gates' house – where sensors respond to human behavior. The technology exists, but Gary Anthes reports that there are cost and reliability concerns. Page 20

N.Y. Counties Tap BI Tools to Expose Medicaid Fraud

Aim is to cut costs as state's bill rises to \$44R this year

BY HEATHER HAVENSTEIN In the second week of Novem her officials from Onon-turn County, N.Y., compelled 100

II M T

documentation from their obsolei una bajustifu focusant The county which includes about \$100 million in Madicald

the city of Syrvense will no costs this year Officials used business intelligence and anabrice took to identify caree where the prescription totals

Medicaid recipients to obtain high physillical continuation of the balance EXECUTE AND A LOCAL DESIGNATION OF THE PROPERTY OF THE PROPERT M234945/CB/78 CH200648 11200 PERIODICALS

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indicated that nations might be attempting to commit fraud cald Sugar Monage the county's executive deputy commissigner of ascial arreion. The county began using the tools in September as part

of an effort to stem Medicaid fraud, Morgan said. Likewise, officials in Nassau County on New York's Louis teland have burnehed two

multimillion-dollar investiga tions based on data compiled prime III took in an offert to identify potential Medicaid fraud by county residents. Because the investigations

are omosing. Nassau County BI Tools, page 14

DOD Report to Detail Dangers of Foreign Software Task force says U.S. adversaries may

sabotage code developed overseas

A LLA Descriptions of Distance rd one to account the Bont own of a concession throat to notice of security from adversaries who could more mulicana.

codo in cufru ana bareduced overseus The Defense Science Marcal a millionre civilcan think tank within the DOD will issue a nonvert that calls for a variety of prevention and short of paymenting that

all software procured by the military by make a long of all a said the head of the task force that has been studying the socalled foreign influence barns The possibility that pro-

aramman might had Trainn horses transfores and other malacare inside the coale they

n rito is hundle a runs conserver Dur the 1968 wall on in se nemore that three farces the present complexity of systems. their in course of a consecutions and the elobalization of the present industry

- house comboned to make the malway threat meressanch acute for the DOMA "This is a very big deal," wild Paul Straw

mann a neofessor of George Mason University in Exirfax Va. and a former (10) at the Pentagon, "The fundaunder conditions where we will built need communica tions, we will have a denial or make and have beller at the

waymons unable to function." Pobert Lucky the charmon of the DKR task force, said this DOD Report page 41

F-GOVERNMENT REPORT CARD

rs and on e-novernment's loss of

Good Government. We try to On the Web

stay on the cutting edge, to make sure we're The National Policy Research Council doing it first and has evaluated and graded 11.227 doing it better

JIM HOGAN, INFORMATION







_DAY 25: They're in the cafeteria!! AAAGGG##!! These useless things can't work with each other. They aren't responsive. And you can't adjust new capacity on the fly. The horror.

_So many of them, I have to eat standing up. My arches one killing me. And I got avocado on my shirt.

_DAY 26: The onswer: IBM BladeCenter® with Dual-Core
Intel® Xacom® Processors to boost perfarmance and balance
workloads. Its self-automating features make it easy
to manage, and it has more blades per chassis for a
smaller footprint. The BladeCenter even opened up its
specs, so the things we buy today can mork with the
things we buy today can mork with the
things we buy today can mork with the

_I can eat my turkey-avocado sandwiches in peace again.



IBM.COM/TAKEBACKCONTROL/BLADE

CONTENTS Acciding Data Migration Delays is in industry within AT Person office of

suggestions for approaching data migration so it won't cause embarrassing delays in your project.

Work/Life Balance: What's It Worth? In the Management section: Flexible companies that help their employees have lives outside the office get ROI in

their employees have lives outside the office get ROI in the form of a better, more committed workforce, say IT

NEWS

Cassertion that Linux "uses our intellectual property" was sharply criticized by some Linux users and by Novell, Microsoft's new hudness narrier.

6 E-voting affectes in Sarasota County affected the outcome of Florida's 13th district congressional race, losing candidate Christine tennings alleges in a lawsuit.

Nameng the 50 U.S. states in a study that rated more than II,000 state and local government Web cites on criteria such as usabilities.

12 they companies aren't ready to meet federal guidelines for the submission of electronic documents in civil lawsuits, according to a Computerworld survey.

Federal publishes for stronger authentication of online users won't be enough to truly secure Web banking systems, say IT exces at banks and confit unions

5 Q&A: Bank of America IT manager Craig Hinkley discusses the bank's effort to install about 180,000 VoIP phones in its U.S. operations by early 2009.

Clebal Dispatches: India-based Satyam Computer Services plans to increase its workforce in China, partly to help ensure that it has enough employees to support its offshore services.

10 98.4: Barland exec Rick Jackson explains why the software vendor decided to turn its tools business into a new subsidiary instead of selling the unit.

TECHNOLOGY

20 Future Walch: If Those Walls
Could Talk. For years, technopundits have predicted the arrival
of "smart spaces" — environments in which sensors respond
to human needs. The technologies
exist, but there are barriers to
adoption such as cost, questionable interoperability and reliabilities
of social and calculated business.

Security Manager's Journal: prating the Brahas on Not lebigration. After looking at the serry state of an acquisition target's network, Mathias Thurman figures that he'il almost have to start from scratch to provide the necessary securities.

ANAGEMENT

C)

T librator: A Small Project

Phaphosit. Football coaches
use playbooks to coordinate the
actions of team members apread
over a large area. A project playbook can serve the same purpose
especially when your team is
recorrashically dispersed, arex.

Manageré Forum, How can you tell if you have a morale problem among your IT employee? If you have to ask, you prosel? If you have to ask, you prosely do, says Paul Glen. But there are other warning signs. He also offers some suggestions for getting senior management commitment for an IT initiative.

Tom I Barnett

OPINIONS

10 Mark Hall worries that our behoods are creating toch-savey kids who lack the basics of critical thinking.

10 Thernian A.

10 May thinks

May thinks chief privacy officers can make a big difference for companies that market to consumers, but their doings and whereshouts are

a bit mysterious.

20 Robert L. Mitchell predicts
that the new user interface
and file format that come with
histoprofity (195m 2007 will cause

Some transition problems.

36 Paul Insurable
a lesson when he
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class recently.
Try image among
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people hasn't

changed — it's as bad as ever.

Prantly Speaking: Frank Hayes
Says IT should be grateful
for whistelblowers like the one
who brought disruption to Kaiser
Permanense by exposing how the
CEO and CIO forced the company
to adopt a questionable electronic
health records system.

DEPARTMENTS/RESOURCES At Drading Brefs Mous Brefs

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DHLINE

Measure Your Backup Health streams: Partial backup completion, consecutive backup failures, media utilization and tape drive performance are all metrics to consider when checking the health of backups, says columniar jim Damoulakis.

Privacy on a Global Scale

MANAGEMENT: Jay Cline sees
a way to clear out the chatter
and settle on reven privacy
principles acceptable to most
pastions in the Messers world.

world Virtualization Dangers assument: Consolidating your servers? Two wands consultants offer advice on reducing the risks of putting too many applicaons in too few hardware beabots.

e Steps to a Secure, Stal

WINDLAND CONTROL OF THE ACT OF TH

hy Mogapholis Don't Matter m.E/WHE.HR: Most people believe that sen it comes to digital cameras, the more gapixels the better. That's not always true www.computerworld.eas/mid-fine-below

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Challenge #2:

Turn a thousand versions of your numbers into one.

Solution-

Hyperion—your management system for the global enterprise. It's hard to see the insight in the numbers when they come from a thousand different corea/sheets and dozens of business intelligence tools. That's why the world's leading CIOs and CEOs turn to Hungrion. With Hungrion' System's. one wond's reading Cros and Cros turn to reperior. With reperior system 4, data quality across all enterprise systems—analytical and financial applications, transactional systems, data warehouses, and more. So you can deliver numbers that inspire confidence. And insights that incolve action

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Hyperion



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ova Purchases Traverse for \$15M ye loc. lost week acquired

id company, for \$15 million. moreo makes corver and clic are designed to let enter teriors easily retrieve and ge voice mail on a broad e of mobile devices. The

ALDEADUNE Ballmer Blasted for Linux Stance Heare Novell criticize Microsoft CEO's

claims about intellectual property ____ ----M P ICEOGOST CORR

A CED Steve Ballmer's declaration that Linux "uses our intellectual property Consider Control of Control serve last mock with Newell Inc objecting to Ballmer's characterritories of its record natural deal with Microsoft and some men securing him of trains

to some fences about section I impe At a SOI. Server user grown conference in Senttle on Non-16 Ballmar assested that every Linux user "basically has an undisclosed balance short liability" related to the was of Missess the insulinatural represents He also said that as part of a joint development and

patent licensing agreement

Novell had paid Microsoft for Novest had paid Microsoft CIPEL! are "appropriately covered." Vanil back Fault Sectoral Date subsidiary in Lowland Colo subsidiary in Lowerand, Colo. said via e-mail last week that

turing for mind share to enterprint executives knowing it will have little to no impact on IT executives." "I inhility" Dismissed

Kroli Factual Data, which provides credit reports and other business information services currently uses both Windows and Red Hat Linux on servers in its data contact Donner plant to switch the Red Hat

servers to Windows for case of angement but he said the shift has nothing to do with concerns about legal issues. "I do not believe that my

mpany has an 'undisclose balance sheet liability." Donnon-wrote adding that "the threat of each a Sishility would not in any way info --- his future buring deci-

sions on operating syst Barry Streemick CIO at 6. nancial carriors from CitiStreet LLC in North Ouincy, Mass. was even more emphasic in his criticism of Ballmar Streenick said via e-mail that he viewed Ballmer's comments as an

attended to consta fore uncontainty and doubt among Linux "FLID may have worked for IBM in the 1970s but not today," Strasnick wrote

thinking of moving some applicontinue from Red Her to Windown, "but this has now totally alienated me from Microsoft Novell CEO Ron Hoysepian also took issue mith Ballmosts

comments in an open letter nested on his company's Web site. "Our agreement with The suit urged the ludge to Microsoft is in no way an acknowledgment that Linux infringes upon any Microsoft intellectual property," Hovse-pian wrote, "We strongly object to the usage of our arreement to suggest that members of the Linux community owe

Microsoft any remuneration." Microsoft released a state. ment saying it "respects Novell's point of view on the patent issue, even while we respectfully take a different view." Microsoft acknowleds that Novell is "absolutely right" in savine it didn't admit to any

Linux potent problems as part of their agreement. The companies later held a joint conference call with reporters to say that they remain committed to their alli-

e-voting machines, said it had not seen the lawsuit and deance, despite the flare-up over

Lawsuit Blames E-voting Glitches For Florida Election Undercount by the Florida Flortions Can-

The loring candidate in a diewassing Commission puted Florida congressional election has filed a lawsuic contending that elitches in electronic voting machines in Sarasota County were the main reason for most of the 18,000 so-called undervotes there in the Nov. 7 election. Christine Jennings last week

filed suit in Leon County's Second Circuit Court in Tal-lahissee contending that the glitches in muchines used in Sarasota County affected the outcome of her race because 18,000 voters taking part in the election apparently did not cast a hallot in that contest. The

candidate asked that a county judge order a new election. Jennines, a Democrat, Jose the race to represent Florida's 13th District in the U.S. House of Representatives by 369 votes to Republican Vern Buchanan. Two recounts upheld that tally. The election was officially certified on New 20

Undervotes, or heliots that have been cast but are miss. ing some for individual some represented 19% of the votes cast in Services That rate was abnormally high, Jennines maintains in her lawsuit. The rates in other counties were for lower, according to the suit.

lennings contends in the lowwit that the overwhelm ing majority of undervotes in Sarasota County were not con-tolous decisions by citizens not to cost a vote in the construcsional race. Rather, she argues, they were caused by a problem with the touch-screen system.

The complaint names as plaintiffs Florida Secretary of State Sue Cobb, the Elections Canvassing Commission, Buchanan and other county and state officials "The wore totals in the con-

tification are wrong because they do not include thousands of legal votes that were cast

counted due to the pervasive malfunctioning of electronic writing machines * stated the

> order a rapid examination of the sadit and ballot image loss in the machines, have the Flections Canyassing Commission void the current results, dece tify Bachanan as winner, and either declare Jennings the victor or hold a special election. Voter Action, a nonnenfit election watchdog organization in Berkeley, Calif., and the

American Civil Liberties Union of Florida last week announced plans to jointly file another lawsuit calling on the same court to order an investigation of the performance of the e-voting machines and a new election Election Systems & Softwere Inc in Omaha the maker of Surrenta Countries

clined to comment 1

SAL TOP DABLE THOUSE FOR MUDSIZE COMPANIES! THIS BETTER NOT BE ANOTHER PRANK BY THE GUYS IN PROCUPEMENT.

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Free Systems Management

software adds spice - and advertising - to your admin's tool cheet. Scot Abel, CEO of Spiceworks Inc. says that IT, particularly at small and midsize companice note the shaft when it comes to existence manage ment software, which he contends is expensive to buy

according to install and manate In contract Abel claims that his Snirounrie IT Desktop software offers

desmotically simplified* management canabilities. And it's free as long as you don't mind leeting a portion of your screen's real estate be used to show

context-sensitive ads. For example, if you're reviewing a printer's status, you might see an ad touting ink-let sun plies. Abel says IT Desktop gives you reports about what software is on your network, the available disk canacity on our storage systems, printer ink levels and much more. In early 2007, look for Spiceworks to add support for logins from multiple accounts and for attachments that

Levy, founder of GatherSpacecom, an online service of fered by Levy Consulting Inc According to Levy, eyen small and midsize communies like his are using outsourced or offshore developers on soft ware projects. But many can't afford spendy project manseement tools to keen track of whether a new spolication's features meet the original specifications. Levy says CatherCourse com's service is based on the so-called use case approach to application requirements

Gather your dispersed development team . . .

in a single (virtual) space

Such is the vision of Darron

management, enabling users to prioritize software check their status and see how well they match tickets IT Deskton generates. the origina

ON THE MARK HOT TECHNOLOGY TRENDS, NEW PRODUCT NEWS AND INDUSTRY BUZZ BY MARK HALL

company documents requirements documents. sous "he claims Next month CatherSpace com month, GarnerSpace.com work for quality assurance envincers and a licensed cigiocers, and a becine a software is due next year Leaven The online service

costs \$25 per month for a 20member project team. Tis the season to fret about

los sere war Web showers Although in may be a bit late to improve wear Web site for this year's

holiday sayson Vernote See. town less con help you get a immo on the 2007 shoenine action pung account service called Transaction Decemention High Fragmency

which it plans to launch in late December, Using Inter not Evalues to automatically hane on your site up to four times per hour from as mans as 114 locations. Keynote will let you see how shoppers interact with all those Web 2.0 features you've been adding. You can measure whatever on IF because can touch."

says Abelardo Gonzalez, a Keynote project manager. Among other capabilities, wwe'll be able to determin how fast pages load and lo-Driving storts at \$1 295 per month for testing from 10

Inventory what's on

your network, then manage access to it. "IT has no idea what's connected to their network * contends Lior Tal. CEO of Insightix Ltd. in Ra'anana, Israel, Tal says that's especially true if you're using management frame-works like Tivoli and Unicenter. He claims that they miss a

lor including not, including mouse octa connected to the permork during the

investory proc --- outeidere who attach to - I A MI mich static ID wh description and

PCs that have active firewalls Von con't not a good idea about what policies to apoly for network access until you have a complete inven-

tory. Tal says. His company's Insightix Network Access Control Server is a control coffuses combo that must on your network's switches and eniffe each nucket oning by to locate its device of origin Characteristic and publishes on access rights, devices found to be out of compliance use placed in quarantine and only permitted to communicate with a remediation server according to Tal. Version provides graphical views of a network's logical connections and lets you part your sys. tems inventory in a variety of

ways such as Windows PCs with live francille Pricing starts at \$5,000. Highlight info on the internet

... via an online service. A free ad based service offered by i-Lighter Inc. lets end users highlight content on a Web page and save it to a folder as a senarate file According to CEO Marcy Hoffman, you can annotate highlighted content and designate folders for public viewing or keep them private The service initially works on IE; next week, i-Lighter will add support for the Firefox browser. Hoffman says the company also is working on a licensed enterprise version and on making i-Lighter work with Word and

With competition heating up, how will Air China open new doors abroad?

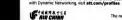


Dynamic Networking, Take Flight,

Competition can be ferce. With competitors giving chase in the domestic market, Air. China was lighting to stay on top. But it couldn't hamper is ability to seven more destinations abroad. The plant Fetcold is 17 yestern to tresement of the plant of the plant fetcold is 17 yestern to tresement travelers expect. The solution: Dynamic Networking from the new AT&T.

To address these challengist, the new ATAT created a reliable, scalable soution that's handling millions of transactions price yal. All white deleting real-time access to data. Air China is seeing immediate returns by opinizing its reservations, route scheduling and frequent High programs. And the renewed vigor is keeping this leader on top.

To learn more about how it China and other businesses have found success



The new E at&t

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The World According to Stephen

I am the shepherd of resource:

The conductor of an inventory

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Dynamic Networking from the new AT&T



Mich. E-government Site Gets Top Marks

Study grades state. 100 local government it a consulation other criteria

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bank control mod they can get Focus on Services

A continue to M. Arthur conproblem with many powers use of Web sites is that they're where is most users want to a controlled a task take to a me a natur full without den retracut is much id 1 The host Web sites offered on the home pay, a us muot all sys-

comment was now no unflow America modificación con consti by the NPRI study is outdated interest dissentingly of severamore Woborton "Lather mantain its currency and accuracy or shot it down. M. Arthur

study looked itendened be added cases in which small concraments argurently paid service propalers to set up Web sites for them but then let their contracts expire

Best Government Sites

Ton State Web Sites

Alamada County Calif Los Asseige County Calif

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www.voderce.com Bencombe County N.O.

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Top City Web Sites

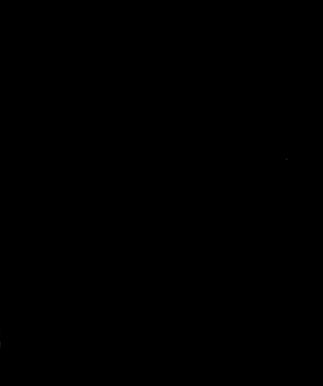
City Fresno Calif Татка Ра

www.c.tampaflus www.dc.cov www.shooy.com

Population of 50,001-250 000: State Chandler Auz Augusta, Ga

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Communication of the contract

Source of michigans new

to download the governor's

weekly radio address to iro

tor of the IT department's

a-Michigan Web developme

division which has 15 staffers

A common theme a

accomments with top-ranked sites was a penchant for listen-

ing to what local citizens and

husinesses were via online

surveys and comment fields

Citizen succestions led

Michigan to make its site bi

nession for neonle with dis-

Similarly online curvey

feedback prompted Virginia's

Verk County to allow nations of its public library to reserve

books online until they can get

to the library to pick them up.

said webmaster Colorn Cason.

department is involved. "The

abilities. Horan said.

lingual and provide a text-only

services include RSS feeds,

board meetings and the shiliry

months radio address to iPods

Mich. E-government Site Gets Top Marks

Study grades state, | Idaho and Indiana, which both local government sites on usability other criteria

THICKICAN COV risings on fad licensed day-care newider recers site, renew licenses and

net shorts about mad closures get aserts about re delinated to their wireless devices. Thus being to explain why Michigan garned ton michigan connect my released today, that grades the Web sites of state and local now.

The e-government report examination of 11 227 official The same of the same one ducted by the National Policy Received Council (NDPC) Washington-based think took in collaboration with Comput. erworld. Reviewers judged the Web sites on 25 criteria, including whether people could use them to now taxes hid for contracts, find government iobs and complain to local of ficials about concerns such as

of As for its site followed by

manipud A's and Naharaka received As, and received grades of 4-Among his cities and coun

ties, the NPRC study save high ments to Person Calif. Tomas Ela - New Orleans: Monteon and County Md : Alamada Country Califorand York Country ry Va. (see chart at right) The highest synder generally

went to Web sites on which a wide range of services could easily be found on the home page instead of being buried several pages deep, said Pohert McAnther she MDDC's a common ment project director

Michigan has made nearly 300 online services available on its Web site and they're heavily used according to lies Hoose information officer at the Michigan Denartment of Information Technological

om in I sociae The Web site pets an ner web site gets an views per month, he said, and 60 million PDF documents are downloaded from the site annually, Helping drive some of that traffic is a requirement

that communies wenting to do business with Michigan must use the Web site's electronic

best Web sites offered on the home page a menu of all government services resardle of department," he said. Another problem uno

by the NPRC study is outdated information on official sovernment Web sites. *Fither maintain its currency and accuracy. or shut it down." McArthur said. "Rad information is worse than no information." A few sites examined in the

study looked abandoned, he added - cases in which small governments apparently paid service providers to set up Web sites for them but ther let their contracts ernire

DEBORT CARD **Rest Government Sites**

Ton State Web Sites

Ton County Web Sites

Forces on Services According to McArthur one wohlen with many govern-

more Web sites is that they're organized by department. organized by department, whereas most users want to accomplish a task - like pay ine a water bill - without necessarily knowing which

€ тоннови сов

bidding system.

E-gov't, page 12

ENTERPRISE STORAGE. ONE ARCHITECTURE ACROSS ALL TIERS. SLEEP.

PICK ANY THREE.

IT Unready for New Rules On Electronic Evidence

As Day Labording looms survey finds some ignorant of new requirements

AND ADDRESS OF THE don't appear to be prepared for non faheral rates - december of our Day of for dated to take elect 144.140 mente in civil cases, wounderer

the same of the same of this munth by Componencycld About Dr. of DD IT manar. and a offer common dead they agon't prepared to meet the requirements of the federal

the requirements of the seder. what prepared while 42% said they don't know the status of their componies' and continue The new rules specify reincreases for submitting electronic documents - likele including e-mail and perhaps instant measuring loss depending on future case law as evidence in civil litierature

The rules were recommanded in Supported a Print has the believed Conference of the the park of commercial formation too on Rules of Practice and

The rules described in a 300 oles page document comsolod by the conference, no min that comments involved the state of the same and the same In days of the filing to decide Strategy of the ning to decide The firms must serve on what

records are aband and on subject of comments for most Past decisions by courts indicate that penalties for fail ure to comply could be barch and costly Mantan Stanles was found \$1.5 bellion in May 2005 when a judge ruled that

it had failed to preserve elec-James Books a mail admin.

"It's surprising how near

sites are to this day," he said.

They're poorly organized.

and most consecration at an

centric rather than focusing

Darrell West, a professor of political science at Reusen

University, said that the move-

ment toward convergment has less some married an

because of skirney budgets.

"In the long run," West

future of c-povernment, but

said. "I'm optimistic about the

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Wise beneates

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tion consider at Codar Circle Health System in Los Assoc loc said a Computer work. Stormen Manuschiner World Mosage reconcering record this month that the rules are a

Samuel Brown problem the docard becomes in King i management to page to comply with the rules. The company is spending \$5,000

not month convince tables to per month copying tapes to Don Goven manager of accounting and information contents at Top or Appropriate LP a netrochemical company in Hauston said be wasn't

and the importing ruler changes before receiving the Commutational district Green plans to work with the company's leval country

lack Mel aine assistant vice provident of MIS at Locarors

Ready or Not



W. Comment or pro

ment product. McLaire said John Boot on analyst at Gartner Inc., said that orgastone to desclop document We'll do it next mor. We said. management procedures to

nizations should quickly take retention policies and evotent help report the organization in once documents and but \$

Roser 170 III perdentionals sustan including document Financial Corp., said the system, incruding occument scanning, based on Dormskie Wasanissing Pachased finan Inc & Dynamic Information aid ossion fembores taking steps to meet the requirements Enminer Assument manage a super and a half ago before work on the new rules was

Continued from page 10 F-gov't

E-government generated a for of excitoment in the late Militie has the development of online government services has stalked in many locations.

cold Rub Athinson provident of the Information Technology RECOMMENDATIONS

longer than people thought a will require more online interactivity, according to both Athinson and Wast That could mean adding wigards that walk Web site users

Devitalizing e-government

and Innerest on Econdation in through complicated processes of part fire tures that allow ciri. zens to participate in their sewernments'

alliestions are still ners against on what would make sense to

people want to accomplish on

In Michigan the IT

department is working on mohile applications for tasks that morning and the skipper finds

said For evample. one future applicarive will let people

officially completed

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We've not to do this now

set up an e-mail archivina

Leesport spent \$60,000 to

who book charter fiching tours one handheld devices to hav 24-hour fishing licenses "These may show up at the dock at 4:00 in the

short notice. Hostan

our thou don't have their fich ing license," he said

Michigan also ranked No. 1 to the 2006 Digital Status Ser. ver, which was conducted in lune by the Center for Digital Government in Bolsom Calif We try to stay on the cutting other "Home evoluted "to make sure we're doing it first

Lack of Standard URL Format Creates Confusion sion about whether a particular V site is an official govern or an unofficial one set up by an

ment Web sites by the National Policy Research Council found a lock of stands both the URL formats and the toplevel domains the sites use.

For example, the NPRC said the California's Marmoda I no Anneles and Sacramento countes use the og URLs, respectively www medica us. http://accumbr The problem is that the differ

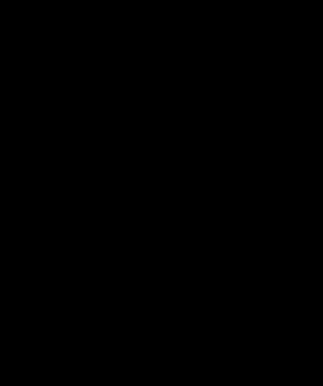
PRC said in its report. The most common top-less

anization such as a chamber of erce or a violitors' bureou, the formains among state and local ent sites are one, con us but some use net, payor info. to to the NPRC

and doing it better." local governments that use the untry codes of foreign nations. For example, the Web site for the

own of Hemosteed, N.Y., which can be accessed at http://loh.il, uses the why code of I jerblenstein in an alternot to signal that the town is d on Long Island.

Other country codes used by local governments, the NPRC sa inches those of Montserret (.ms). Semna (we) and Tomas (to)



Ready or Not

IT Unready for New Rules On Electronic Evidence

The rules were recom-

mended in September 2005 by

U.S. Supreme Court's Commit.

toe on Rules of Practice and

The rules, described in a

As Dec. I deadline looms, survey finds some ignorant of new requirements

ANY COMPANIES don't appear to he neenared for new federal rules stated to take offers Day I for

electronic discovery of documents in civil cases according to a survey conducted this month by Computerworld sonth by Computerworld.

About \$2% of 120 LT man are and staffers surveyed said they aren't prepared to meet irements of the federal the reen

adjet 1964 cald they are comewhat prepared, while 42% said they don't know the status of air companies' propagation The new ruler enecify reirements for subsciriou electronic documents likely including a-mail and nerhans instant messaging logs, de-

300-observer document comniled by the conference require that companies involved in civil litigation meet within 30 days of the filing to decide how to bandle electronic data The firms must agree on what records are shared and on which electronic format Deer desiriose by course indicate that penalties for fail.

ure to comply could he harsh - and costly, Morgan Stanley was fined \$1.5 billion in May 2005 when a index ruled that it had failed to preserve clostronic information Tomes Brady, e-mail admin-

istrator in enterprise informa Health System in Los Angeles and at Computerworld's ies, said at Computerworld i Engene Metuneking World conference in Orlando sorties this month that the rules are a looming new problem

Standy said he speed six months lobbying Cedars-Sinai management to prepare

company is spending \$5,000 per month copying tapes to make sure date is available Don Green, manager of accounting and information contame at Toyor Atomatics

I D - -----in Houston said he wasn't aware of the impending rules absonce before receiving the Computerworld survey Green plans to work with the company's legal counsel

to ensure that the mandates Inch Mel nine negistant vice president of MIS at Leesport

Planarial Comp. said the

Wyomissing, Pa.-based financial convince from borran rabine steps to meet the requirements a year and a half ago - before a year and a man ago -- be work on the new rules was

officially completed "We knew it was coming." he said "We couldn't say The Said. "We couldn't say. We've got to do this now. Leesport spent \$60,000 to set up an e-mail archiving

Inc's Dynamic Information Secretary document manage ment product. McLaine said John Bace, an analyst at Cortner Inc. and that one stens to develop document management procedures to help protect the organization in case documents are lost.

nutum including documen scanning based on Permulai nizations should quickly take retention policies and conten

nending on future case law - as exidence in civil litigation Continued from page 10

E-gov't

E-government generated a lot of excitement in the late 1990s, but the development of online government services has stalled in many locations. said Rob Atkinson, president of the Information Technology

OESIGN RECOMMENDATIONS

and Innovation Foundation in "It's surprising bow poor many government Web sites are to this day" he said. They've poorly organized. and most e-government acelications are still very never-

contric rather than focusing on what would make sense to Darrell West a professor of political science at Brown University, said that the move-

Washington.

ment toward e-covernment has lost some momentum because of skimov budgets. "In the long run," West said "I'm antimistic shout the future of e-government, but the revolution is going to take longer than people thought a

decade ago. Revitalizing e-government will require more online interactivity, according to both Atkinson and West, That could mean adding wizards that walk Web site users

through complicated processes or new featurns that allow citic zens to participate in their governments' decision-making processes In Michigan, the IT department is working on mo-

short potice, Hogan said. For example, --- 6---tion will let neonle who book charter fishing tours use handheld devices to buy 24-bour fishing ses. "These guys show

out they don't have their fishing license," he said. Michigan also ranked No. 1 in the 2006 Digital States Surway which was conducted in June by the Center for Dietral Government in Folsom, Calif. We try to stay on the cutting edge," Hogan explained, "to make suce we're doing it first



The Highly Reliable Times

UNITED 1 - 100110 1

Windows Server 2003

LONDON STOCK EXCHANGE CHOOSES WINDOWS OVER LINUX FOR RELIABILITY

Reliability Is Key in the "World's Capital Market"

By MICHAEL BETTENDOS

LONDON, Oct. 2006 — nology systems. "We looked When an IT system must at a number of different plot systems. IS million real-time. forms for our Technology

The terms

faced when building infete the Exchange's real-tin stock-ticker information

The solution had to have rock-solid reliability, nothin less. "Reliability is one of the loy ste lives of the Euchange in its technology system

could deliver the kind of mission-critical technology of the we needed, and we fix.

Microsoft delivered just the For the bell London the

Berhangs care study, pl other case studies and inpundent research findings the reliability of Windo Server versus Linux, wisk at microwell.com/gretudes

DIRECTOR STOCK FOR

Record Reliability

Doubl Larine, Chief Information Officer of the La

Federal Rules May Not Fully Secure Online Banking Sites

IT eyecs say banks and credit unions need more than strong authentication

DIVINICAL Institutions

that truly want to bel eter their online security need to look bework the federal midelines on endsurguidesines on ex into effect Ian, I. IT manage and analysts said lost week

The guidelines, issued last Institutions Examination Council (FFIFC), call on banks and credit unions to advert so called strong outhern tication measures for protectine online customers sesinst

identity theft and other tyres of found The FEIEC's recusivery

have gotten the financial services industry to turn its attention to the issue of online security said Cartner Inc. analust Animah Litan

No Silver Reliet

But strong authentication "certainly isn't a silver bullet," said Melien Aurbert CIO of Paris Endoral Credit Linion in Roch. ester. Mich. "It just protects. one doorway It's one more measure in a comprehensive approach to protecting the ets of our members Early this month, Pards

finished rolling out a multifactor authentication tool from BioPassword Inc. that uses a combination of standard log-in credentials and information about the keyboard typing ebuthers of pears to control access to their accounts. But Amehrer said Parda has also invested in a lavered set of defenses, including transaction

For the past year, the Universiry of Wisconsin Credit Union in Madison has been using coftwere from Corillian Corn to authenticate its online use during log-in and, to a limited extent in the transaction

stans. Eric Banaceter the credit union's diseases of Internet amount a cred the coffee are less the financial institution profile users' systems and online hehavior and then challenges them

an approvide extra proof of their Identity if any change from the norm are detected. The small series also also

Continued from some I

officials declined to provide

found But then did one that

more details on the suspected

the county has saved millions.

of dollars since 2003 when it

started using BI tools to ana-

Several counties in New

to help cull through millions

Stephen Acquario, executive

director of the Albany-based

Refore putting the tools in

place, counties had no easy

way to estimate what their

state would be according to

officials in amoral counties

began using Salient Perfor-

from Salient Corp. to ana-

have done stored in the scare's

Madicald data prambours to

detect patterns that might in-

dicate abuse, said Beth Berlin.

commissioner of the Albany

County Department of Social

Albany County last month

mance Management (formerly called Muni-Minder) software

York are turning to BI tools

RI Tools

lyze claims data

to add a stronger "out-of-band" process in which automoti account holders if there's still nannon to doubt their identity Ranwerter said.

ertainly isn't a site le bust protect

That is necessary because thickers have already because

to find ways to compromise most challenge-and-response forms of strong authenticstion he noted "Eventually" Bangerter said "I would like to eliminate the challenge questions completely because they

The Callent cofrance is designed to provide access to transactional data and other informa-Guy Amisano president and co-founder of Salient. The results are displayed graphically to help users detect

questionable activity Albany County has appropriated \$57 milof claims to identify potential lion to pay its Medicaid cases of freed and misses said said Because that amount is so bigh, "we New York State Association of are interested in look.

ing at the claims to determine if there is any pattern of activity that is outside of the weekly Medicaid bill from the norm that would indicate that there might be a need for a more intimate review of what

is going on in that provider's organization " she said Potential Returns

Oncedaea County is using the same Salient software to flush out Medicaid fraed Morgan said. The county paid \$200,000 for it and will pay \$30,000 annually for mainte nance, he said.

The county hopes that fraud

Hadas the PETEC's suide are supposed to augment single-factor authentication - with a second form of su-

thentication by wear's and I ne guineilnes aren't a for plans to start muliting finan cial institutions for comp Don Phan, an analyst at Issuelin Strategy & Research in Discountage Colif said onlis fraudsters have already found

the ongoing analysis

of prescription data.

will result in some re-

cipients being placed

icaid programs that

limit their treatment

to a single doctor and

Nassau County has

been using statistical

for three years, said

Perce Clement assis-

tant commissioner of

the tools to examine

claims filed by trans-

nharmary.

the country

\$50,000 in hillings for 2003

that had no matching treat-

noted that the 40 companies

know we are monitoring

ent took."

it now and farel looking at

From 2004 to 2005 he

Iclaims) through these differ-

added, the county's Medicaid

transportation bill decreased from \$10 million to \$9 million.

lines banks and credit unions processes - typically based on a username and norsword

The middlines aren't a fee a way to break the operation nacemonts that some banks transactions 8

from of authentication em of authentication. arked to focus largely on frontand access controls "my don't annelded the EFIEC evidence Counsel the PPIEC guida to make the consumer safer." Ohen said "Einemaiel institutions must set their enals highor " He recommended the use of sick assessment and abouting measures at loo-in and for seal. time manitoring of an account time monitoring of an act

have been using as a second

Chad Graves, vice preside of IT at Ent Endered Condit Union in Colorado Springs. should be adequate for deal ing with current threats each as phishing. But he said that For Federal may have to add eaction-level controls if it decides to support electroni clearinghouse or wire-re-efe

We can't nows it but we obvicounty attribute [the decrease] to the tools." Clement said Acquario said that BI tools are belping county officials throughout the state prove what they have long suspected - that fraud and misuse are contributing to the substantial

growth of Medicaid claims "A necdoter sus no longer roing to be the norm." he said. "Now, through statistical-driven reporting ... we're able to back up what we had cted in wars we were not able to do in wears need Because New York spends ore than any other state on Medicaid services - \$44 bil.

lion worth in 2006 - it is imnortant for the state to control ts costs, Acquario said. New York is also home to one of the nation's largest Medicaid possistions. He noted that the state must be prepared for any federal sovernment move to increase its share of Medicaid costs. "The stakes are high for Wayne Eckerson, direc-

the state of New York," he said tor of research at The Data Warehousing Institute, said that froud detection is one of the biggest uses of data minine and predictive analytics

in less expensive Medanalysis and data mining tools from SPSS Inc. The county first mend for the cost of bringing relativets to doctors appoint nts. The county identified ment claims. Clement said. He providing transportation "all

Bank of America VolP Project Is on Track, Exec Savs

Doenite class start 180,000 ID phones still slated to be installed by early 2009

Conta Minhine comics wice many according to the second committee president of metwork services ----ID anniest that will being 100 000 TP phones to the hank's I.I.S. onerations he ambe 2000 Floringio

Data Systems Corn is handling the installation and oneoing support. In and original support in cornected this month Highles rooks about the state of the project, which becan about two years ago

is the Vell' project, which you talled about at VoiceCon in Feb-ruary 2005, still on target, and reary 2005, ren on target, and what is the everall plan? Yes, the turnet is still ISO 000 [Cisco]

IP oboses and it's prime slower nicely We've not the program entit into these seems beauth retail enterprise and call conemerprise and can cencoherences and to see it running without try-

to smooth Of 180 000 rotal nhoner we firstl) have provided, the [Williams

40 000 in enterprise and 60 000 in a numb of contact contact We first focused on retail, with

6,000 branches and had to not that program up and nonnine. It's doine well, with 800 out of 6 000 branches con placed We are doing this with EDS, which will deploy and

eries and contact contac projects?

We've completed 50 extremise We've completed 50 enterpr the contact center effort beform the and of the year. The See beeting will be a medical size contact center for internal annoister in the Charleste N.C.

> ---dut? We are north of 20 000 What region done to the last III months is forme on modelish ing the program, processes and standards of what swice Apploping We're hed lot of deploying we ve had not of

executives about how we want VoID notionally to support It's not just been a technol our transformation but falso!

a basiness process transformafor a lower-cost alternative to Oracle databases running on

Tharavil said that the insur

I've been in

er did not consider emercing

time something

new comes along

they say it's a silver

hullet I still haven't

found one

Solaris-based servers

What is the status of the enter-With her 20 000 and of 100 000 ness installed after two more

phones installed after two years, are per son on someoner we are has there and there are off the technology We started a finalslower out of the cate to undorstand how to use the tech-

notons in our projector Then will the project be come and We will have our enverse completion and for law 2000 or early 2000 While we work out element then expected one will

have enough runway to meet abank We don't on there It's

in the new technology provide nto obsess secretor la serva

such a voice quality? From a mulity and technology perenection it's working extreme

that the company has to nextly small niche and customer boso

at this point." Issues Gravernor on unabed at RedMonk, a Denver-based consulting firm, said the tidiness of open-source stacks will

precertified open-source applilikely continue to appeal to cation stacks in its search for a some customers despite their rigidity. He suggested that the true standards-based component modularity promised by the business service oriented architectures for 35 years. Every will likely make the current etacks loss polesnor

> Application stacks have a long history among mostly large vendors of proprietary software, such as Microsoft Corn 18M and Oracle Corn Such vendors contend that their integrated software need ucts can boost interoperability

and cut costs, though suppliers of hest-of-breed software often note that each products also lead to vendor lock-in. To date, the task of integrating open-source software is

mostly the responsibility of corporate users — or their highly paid consultants Such projects could easily wine out the savines from using free software P

be small. We make the made a ny west we went through a process of making sure that that is comparable to what that is comparate Did you have to secrete the IP

you have to opgrace me or ind in terms of the second the bank has been executing / 1 more than three years. We had implemented an Optical Carrier 40 dual-IP backbone contact to desire our Co. and already had a backbook speed canability to support bringing maior communications con the infrastructure. We had refreshed a significant postion of our notwork emitabas as and of a managed basis

Here there boun any problem bringing together voice and data II markere? It was not a ambles but applifile it was a notential factor we recognined at the erart. We clearly clarified that this project was a transformation not just from a technology perspective, but from a people and process nerspective We worked with

them to make some that intocontinue within the union and data teams occurred from Day One Have you added any now commu-elections features, such an united

min mel and a-mel? Candidly we have not yet deployed unified communications in terms of a single boy for e-mail and mains mail World by phosing that in over time. We won't wrait contil 2006 but will become that in

New has this project goes for was normally? There's certainly been pain, because you are going through such a transformation across people. process and technology. You are importing business processes and the way the associates interact with technology. There's been pain in that, but that's been countered by the fact that the technology worked well, and we've had a good, solid base to work from:

we've bad good, solid execu-

tive support for the program.

Some Vendors, Analysts Question Stack Promises

BY ERIC LAI Vendors are scrambling to offer open-source application stacks as an alternative to integrated sets of proprietury applications that have long

locked users into the technology of a single supplier. Some warders and anabate however, are quick to criticize the emerging stacks, contend ing that they could look in

near the come was interested stacks of a single wendor's anplications have in the past Vendors hawking opensource application stacks whose integration is proceed.

fied include Hewlett-Packard Co. and IBM. Linux nurseyors Red Hat Inc. and Novell Inc. and independent support providers such as SpikeSource Inc. Scennel she Inc. and many others.

*Stacks are rigid and deterministic " said Winston Damarillo, CEO of Simula Labs Inc., an open-source software provider in Marina del Rev Calif They are *prefab solutions. which mast common dank really want," he said.

Simula Labs earlier this month announced its Community-oriented Payl

manage it

Time Network (Core), which the company described as a flexible framework for building, running and managing en-source software Simula I she also appounced that open-source software providers Covalent Technologies Inc LouisBlaze Inc Manere Inc. WebTide and Charles Solutions have agreed to support Core

The Core offering allows users to customize open-source stacks offerior more flexibile ity than the precertified stacks. Damarillo said. Davis Tharavil CIO at Home

Insurance Co. in New York, is in the process of testing anothor alternative to a preceptified open-source application stack: a custom server appliance from Raicigh, N.C.-based rPath Inc. that's designed to integrate Ingres Corn's open-source database with a stripped-down version of Linux

Home Insurance tested the appliance as part of its search

plug-and-play product. "A full stack just worn't necessary Tharavil said. "I've been in the business for 35 years. Every time something new comes along, they say it's a silver bullet. I still haven't found one."

Dennis Callaghan, an analyst at The 451 Group in New York, said the rPath model is impressive, though he noted

GLORAL DISPATCHES

Satvam Plane to Boost He Workforce in China

WYDERARAD ITTO The same amount of both and the first work of the break hours and

and the state of the second state of the second and the come have former design factor complete and the STREET and the TREET and the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section is the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the section is the second section in the section is the section in the section in the section is the section in the section is the section in the section in the section is the section in the section in the section is the section in the se though a smile. Tennethe wheelers to the response of a present transfer of the not at of remail that provide offshore and the American Street and the second street

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and him are under the

Vo. International News Direct

and a set of the Booms and a trum for a construct in preparation and or button and Park Software Park

Trade Group Opposes Onen-Source Proposal

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short could be so on an Esta that the star of smem the contract of the contract of

cace and public actual Ultra Kanar Chrom Scotter to See Act a house of the deltal time the state of f courses this month. Leading it she bloom and Compound on an incombar

Learning and but am parameters who proposed the bill has and that the open-CARROL DANIES TO THE er and divine all the end to see field for local software sum hare a commentation Do son of the IT outcomests against bioset foreign sendor. managed services may and managed services man-ket in the Asia-Pacific region

Mor the section and trade oroug, which is hand here contends the other half could be one per the arough of the and a could limit the

processing commercial and the Priceles of the period COMMUNICACE O CASIMANA

NFC Files Complaint Over Teletra's Pricing

to a special control in the American and the decomposition of the thanka med a compania wan and Commission of MCCC the second or selection is in being this mount over the power is ready

company stions not work Maria American Description of the Control of the Co hand division is the latest sery are proto her to contract beletted prison for com-- since to be a selled man on fitting of beed been were in the letter which is mohead and not be the Australian marre

pany contract y the recommendation ofter resonanting land best west that it be after proposing the net year that it is Acres of the second But the ACC rejects. Teletra's nearest in Amount an invite man't

satisfied that the norms were reason able. The communicated fine board later to lines in pricing disputes between Echter and the outbor community. The ACCC has declined to comment about NEC's complaint ■ HOWARD DAHDAH COMPUTE DWORLD AUSTRALIA

Computed by Mike Book on

Briefly Noted

has not un its fourth our has set up its fourth cuscity of Gurgaen. The new lacesty to expected to emptoy about 1,0 people by year's end, 3and Dall which also operates support center: death. The Guranes site will see cogain. The Gorgani one win ocp - TOWN THRETON ONE MENNE REBURE

has released a security Non coffuence developed by can software developed by Monae intrusion Prevention app to cooms their network - -men access cornerate date re metals. The device starts at \$14.00 Makin's 10 200 accounts count

- NAMEY COMPANY IOR NEWS SERVICE

has named Garabina Mo. Bride asserted of its Asia-Daribe assessing and a member of its shal held leadership team. Mcride, formerly head of SAP's one tions in Australia and New Zeale now will be hased in Sinnapore, SI succeeds Hans-Peter Klass who has been chosen to lead a new unit incurred on small and multire upers

- CAMODA BOCCI COMPUTERWORLD AUSTRALIA

scioement facilities in **Borland Rejects Five Bids for Tools Unit**

Burland Suttrained upon hits man affect an offers to will seasons with tomost--David | Bick Jackson Burland . hartmarket one officer, talked about the new funded near subsubstruction comments's place in the application

(Al Mi his ones and its third awarter trnancial deficit Why did Burland decide not to sell the development tools group? In ding parties. Since the Jeveloper tools group has histori - Ill book or measure in a lar ish Beeland operationally in besome dath, all for us to break and appoints to a much liferance.

for the full year is expected to

AND YOR'S STORY

best much reverse to arribuse to developer tools and application life-yele management At the end of the day we did not feel we wen going to receive the arproperties value for labor Jeveloper tools division! In manual the salar for our shareholders and

still take care of our custom we made the decision owned subsidiars.

son for selling it in the first place? The move is to separate it as a at and a dome substitute If a de-Court has the court on the assembled trum its own brand its own who and marketing occupies tion. Donne will be no employers shared it will be operated as extended one business.

In the appropriement this month of Berland's third-quarter loss of \$12.2 million, Mielsen said that there will be "significant after tion on reducing costs." Can you elaborate on that? At this time.

we are not commenting. The executive team is working on a second pass at the operational plan... with a focus on profitability. We anticipate discussing that more during our

names an error call in Februon We mentally formed on and increase the end of the to draw crowth this year.

The ALM business is more competitive new than the toess. How will Sectand dif ferentiate itself in ALM? Our too competitor is really IBM Microsoft has a very atresse developer following. They haven't done as well in the Al Manney We specialize

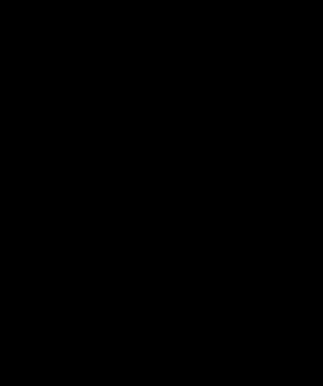
market share. We have re placed HIM in wavral lange accounts - at Kaiser Permanente and Electronic Data Borland has a much monopen approach to ALM. Bor

land offers a choice of using our tools with your specific process, versus the IBM approach, which is they try and force everyone to use their

specific process, the Rational Chald of the control 18th above conmay WaltSolvan House Health Middlessis Grown Dh A or English from Oracle or NetWester from SAP was appropriately of those conally well. Rational fiveness all their efforts on surportine WebSphere

How have both Al M and tool users reacted to the decision to

keen the development business? We have a costomer advisory hours with 20 to 25 contomors in North America that helps us with strategy. The feedback was positive because it showed Borland's commitment. We're not just poing to dump our needs business. With animeter ensure it is taken care of IBorland and CodeGearl do share customers. It is critical that we continue to support those customers.





GLORAL

Satvam Plans to Boost

Its Workforce in China ATYAM Computer Services 1 M a software development and [1]

services firm based here, anmanufalors this month to increase in work from in China from short 400 Satvam plans to expand its services Satyam plans to expand its services

service delivery centers for custom are in lance and Mone Kope said Ranhavendra Tringthi, who beads the outsourcer's operations in China The new staffers will also provide offshore services to North American communica

Trinathi said Sarvam is expanding in China in order to help ensure that it has an adequate number of workers to support its business in the lone term. "We are growing fast and India not be able to meet all

our staff requirements down the line " he said The employees in China will work at evisting software development facilities in Shanehai and Dalian.

An International IT News Digest A ST TO BUILD ON A COMMAND

underground country at the Cuspowhou Cofessor Deel Software Park.

Trade Group Opposes

____ att Philippine Software Inches ter Association is compasine to hill in the country's logiciature that seeks to mandate the use of opensource software by concernment seem

cies and public schools The Press Owner Consens Colleges And of 2006 is scheduled for a hearing in Commerce this month Tendoro Carino the House of Representatives member

who emposed the bill --- -aid that the onessource requirement would level the playing field for local software mendon competing against bioper foreign war day

> But the coftware trade group, which is hosed here contends that the hill could hamper the growth of the local software industry and would limit the

commenced's ability to choose the IT government a menny to choose the products that best thee W LAMINENCE D. CASHATA,

NFC Files Complaint Over Teletra's Pricing

BERRA, ROSTRALIA tralia filed a complaint with the Australian Companie with and Consumer Commission (ACCC) this month over the price it is being

this month over the price it is being Charles to access termina. NEC Australia Pro's Nexton Broad. hand division is the latest survice provider to contest Teletra's prices for con-

necting to its so-called unconditioned local loop service. Telstra, which is malority-owned by the Australian govern ment raised some of its access prices after proposing late last year that it he allowed to institute a single monthly charms across all regions

But the ACCC rejected Telerra's proposal in August, saving it wasn't satisfied that the terms were reasonable. The commission disclosed late last month that it had made interim findings in pricing disputes between Teletra and free other companies. The ACCC has declined to comment about

NFC's complaint

MEC'S COMPIZINT. COMMITTED WORD IN A DETERMINE Compiled by Mike Bucken

Briefly Noted

of Corpora, 199 months spected to compley about 1,6 the year's and, said Doll,

IN NAME OF PERSONS ASSESSED. kin Corp. has releas os access corporato data re le. The device storts at \$14.5

B NAMEY GOVERNO

COMPLETEDANCE D MISTRALIA

Borland Rejects Five Bids for Tools Unit

Borland Software Corp. has created a wholly owned subs ions to men its tools business after an effort to sell the unit failed. In a recent interview with Computcrworld, Rick Jackson, Berland's chief market ing officer, talked about the new CodeCoor subsidiary, the company's place in the application life-cycle management (ALM) business and its third-

quarter financial deficit or did Berland decide not to sell the development tools group? It came down to about five hidding parties. Since the devel

oney tools group has historically been so intertwined with came difficult for us to break out specific revenue (figures

for potential buwersl - how much revenue to attribute to developer tools and application life-cycle management. At the end of the day. At the cold of the day. going to receive the an propriate value for Ithe developer tools division). To maintain the

value for our shareholders and still take care of our custom ers . . . we made the decision to drop it down to a wholly owned subsidiary.

son for politica it in the first elected The move is to separate it as a stand-alone subsidiary [Code-Gearl has its own management team, its own brand, its own sales and marketing organization There will be no employees shared. It will be operated

in the assessment this month of Berland's third-marter last of \$12.2 million, Motors said that there will be "significant aftertion on reducing costs." Can you borate on that? At this time, we are not commenting. The executive team is working on a second pass at the operational plan ... with a focus on profitability. We apticipate dis-

custing that more during our

fourth-quarter call in Februa ery We are mally focused on making sure we can continue to drive growth this year The ALM business is more politive new than the tools mean. How will Bertand all-

forestiate itself in ALM7 Our top competitor is really IBM. Microsoft has a very strong developer following. They haven't done as well in the Al M space. We are taking market share. We have replaced IBM in several large accounts - at Kaiser Permanente and Electronic Data

> Borland has a much more open approach to ALM. Rosland offers a choice of using our tools with your specific process surrous the IRM so. proach, which is they try and force everyone to use their

specific process the Rational Unified Process, the stational use WebSobere (from IBM) or Webl owic from RFA or Fusion from Oracle or NetWesser from SAP, we support all of those equally well. Rational focuses all their efforts on sup-

porting WebSobere New home both \$1.50 and tool

years reacted to the decision to We have a customer advisory board with 20 to 25 customers in North America that helps ns with strategy. The feedback was positive because it showed Borland's commitment, We're not just going to dump our tools business. We're going to ensure it is taken care of, fBorland and CodeGearl do share contomers It is critical that we continue to support those customers P



>> Employees and guests bringing in more than business? Protect your network – and give appropriate access – all with Juniper's Unified Access Control v2.0.

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MADE HALL

Thinking Crisis

IIF.THER you call them the millennium generation, the Google generation or digital natives, most school kids today are considered to therely comfortable with computers, but experts with them. Why, they've had PCs

at home and in the of And Just watch their thumbes thy across the tiny keypads on handhelds, etc-tromsseping and IMing their friends see them quickly vanapub virtual enginies on their Xboxes and PalyStations with aplorath. It's little wonder, then, that some have anticipated the arrival of these technoprodujes as, well, a millennal event. Like, no way, dode.

Like no way, bached:

Like no way, bached:

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centist Ferio Kart at the Educational

Testing Service (Ves. the same ETS

that creates the dreaded SAT, GBR

and other standardized rests What

they hold me completely whrefs the

notion that this percentation of tech
saturated kids is any better prepared

for business or academic careers

than my generation was because

some of an were a deep with the skilled

rule and compass ETS, together with seven major universities and colleges across the nation, devised a way to test students on their information and communica tion technology (ICT) literacy. What they learned from more than 6.300. test results is distressing For example, only 52% of college students and high school seniors were able to determine whether information on a Web site was objective skewed or plain screwy Only four out of 10 of this so-called Goods generation knew that using multiple terms in an online search improved the results. (Don't ask if these kids know anything about

Busiesn searches I And only 44%

puters, but experts with them. Why, they've had PCs at home and in the classroom since, like, um, forever. And list wach their thunks by across the timy keep an online assignment and keepask on handhelds.

accuracy.
So, while we've showered our children with
technology, we've overlooked how they think.
It was false to assume
that if we gave kids technology they would also
acquire the critical thinklooked the thinklooked

Mastering the use of mice and mems is not the same as critically evaluating a problem. Our schools are producing a generation of U.S. workers who understand the intriarrigates who understand the intriarrigates that they are looking at a tree and standing in a forest. So, it is not surprising when ClOs and other business between the ClOs and other business to be the contract of the close to th

paterworld that they continue to look overseas for new hires, as they did again last week in our cover story,

Thank did not not not fully a compared to the compared to the

ing anecdotes, I suspect that he has mined the rare gems, while most kids remain diamonds in the rough. It's time adults stopped arguing about whether students should use

It's time adults stopped arjuing about whether students should use Macs or Windows machines or study branch and two the classroom. That's branch and twing thinking. We need to develop ercovince critical thinkers, because as I look check, the pulse to the conting more complex, not less so. And, yes, our kids will bus technology to help solve those problems. But they'll have to know how to think critically first, and they will have to know how to the conting more desired.

Toront will enter and made



THORNTON A MAY

The What And Why

Was a white-hot noun.
Global 2,000 organizations were falling all over
themselves trying to establish privacy
organizations and policies. At that

head of Gartner's security practice, commented, "The chief privacy officer is a trend whose time has come." East-forward to today. We are still waiting for the high-impact, changemy-stock-price and delight-my-custemer CPO to show up and make his

waiting for the high-impact, changemy-stock-price and delight-my-customer CPO to show up and make his presence felt organizationally. In 2006, many futurists believe we may be standing at the beginning of the lowest and west lifethers.

ing technology exparision since the invention of fire. (Interestingly, it is Sarbanes-Oxley initially libeled as an innovationsucking bit of legislation that would do little more than

or intermore than provide full employment for bureaucrats — that may be viewed in the end as the great accelerator toward a truly digital society.)

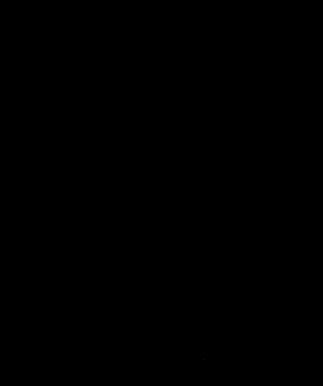
nizations are getting their information management houses in order and tightening up internal processes in advance of the big takeoff. Among the things most in need of rethinking are privacy management and the chief privacy officer.

privacy officer.
It's worthwhile, then, to consider questions regarding what CPOs do

and why they're needed. What Do CPOs Do?

What Do CPUS DO?

I would appreciate hearing from readers who can answer that question.
The fact is that privacy professionals are, for the most part, incisible
to corporate, so cleat and consumer
decision-makers. As an anthropologist studying corporate and consumer
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Thinking Crisis

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Like no way dude Loss than two weeks no I charted with senior developer Torona Kenn and remior research scientist Irvin Katz at the Educational Testing Service (Ver the same ETS that creates the dreaded SAT, GRE and other standardized tests) What they told me completely shreds the notion that this generation of techsupprested kids is any better prepared for business or academic careers then my generation was because some of us were adept with the slide

rule and compass ETS, together with seven major universities and colleges across the nation, devised a way to test students on their information and come tion technology (ICT) literacy. What they learned from more than 6 300

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generation or digital natives, most not merely comfortable with com-

> more able to complete en online assignment an online assignment findings to others with manuago c

Co. while we've show ered our children with technology we've over looked how they think. "It was false to sesume that if we cave kids technotony they would also acquire the critical thinking skills to use it effec-

tively * concludes Fean Mastering the use of mice and menus is not the same as critically evaluating a problem. Our schools are producing a generation of U.S. workers who understand the intricacies of twice and branches but can't grasp that they are looking at a tree and standing in a forest. So, it's not surprising when ClOs and other

nuterworld that they continue to look oursease for new hires as they did and that week in our cover stone

"Eighing in the Global Talent Bool" Thankfully not all of our bide are distractions A new book Young Woolth: Trade Secrets From Terms Who Are Changing American Busi-ness. by USA Today reporter Jon County observators the encourses of TOTAL CHIOINERS CHE MACCEMENTO technical talents, ambition and con structive thinking to create careers. build companies and, indeed make the world a better place. However given the statistical right of FTS's testing versus Swartz's fascinar ing anecdates. I suspect that he has

mined the rare come while most kids remain diamonds in the rough. tr's time adults stopped arguing shout whether students should use Mace or Windows machines or study town or Chief the shoreson. That's brough and twic thinking We need to develop creative critical thinkers. because as I look about the mech lems in business and the world are becoming more complex, not less so.

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What Do CPOs Do?

I would appreciate hearing from readers who can answer that question. The fact is that privacy profession als are, for the most part, invisible to corporate, societal and consumer decision-makers. As an anthropologist studying corporate and cor tribes, one of my tasks is to chronicle





THORNTON A. MAY

The What And Why Of CPOs

NIVE YEARS ago, privacy was a white-hot noun. Global 2.000 organizations were falling all over themselves trains to establish privacy organizations and policies. At that time security euro Bill Malik former hard of Cartner's security practice

commented. "The chief privacy officer is a trend whose time has come." East-forward to today. We are still waiting for the high-impact, change tomer CPO to show up and make his



the daily routines and experiences of the daily routines and experiences of fieldwark. Fun determined that privacy mofessionals occurs just sh processionals occupy has

Renders may be corrested to learn that there is a privacy industry. The Interest and Association of Princes Description of Association of Privacy herr in 23 countries I Trease Muches the entireless well need and rom well the articulate, wear-read and very wear framonth and alamenth comments - the minimal role of tendents entirement professionals who he maintains **** mandians of the data that find our in-

formation soons But most privacy tribe observers agree that privacy people pretty mu agree that privacy people pretty muci water Similar to the Amish, they don't out out much and when they do it is to gather in self-selected conclaves Most

----people speaking to privacy people

What is Society's Attitude Part of the problem is that privacy is

nor front of mind for los and lane Box. - December Balance Communication assistant In The Headleston Best on Core 20 contends that the "Internet has unleasted the assessed authors of man seasied the greatest outpurst of mass cont noll by the Day Internet & Americent poil by one rew oncemes or rooms; 12 --- 17 sever-olds now have personal profiles on the Web Katharine Herron a maltineal and etale observes making in The New York Sun on Sent 22 said she is convinced that "A mericans do want

neissan. They just stresseds with decidine hour much exhibitionism is too

much And they don't seem to know

how to set their own privacy meters."

The Demand and Supply

TO FINALY we are stan a ways on from naving ar mand for privacy. People have not mally made un their minds shout how private they want to be. The supply of privace is company as small An DCA Committee is suspect as well. All Kon Security consumers have "little or no confidthe americal as one taking out foliant that organizations are taking sunication when a Donemon Institute/MSNINC etudo esked "Who do non trust more to money asked, "Willo do you trust more to

vate corporations)* a full 88% nicked the third certices "neither" Why Privacy Matters

Seth Codin autonomous and arrang

extraordinaire, introduced the concent of permission marketing. He describes a spectrum of marketing, ranging from

communication and an arrival intermediate spani cuntry ned continuere an interrup "introvenous" marketing (initiations that depend on trust relationships and there are able to deliver one substance or any price of any time) on the cond and The only way opposituations can many many from some and sound inove away trotti spatit and toward summer, nermination to collect nersonal information. They do this by chemina that collecting the information will help them better expert he customer This is the sort of big, stock-pricenonsing thing that a focus or selection Con penduce

Now on find out where your CDO is hiding and do something about it ?

WANT OUR OPINION?

More columnests and links to archives of pres

Many Cohol Coders Are Still Going Strong Visual Resistant and other computer

T'S HYSTERICALLY furne that T'S MYSTERICALLY runny and 459% of the respondents whose stines use Cohol said their ability to here Cobol programmers was either worse or much worse, than their ability to hire programmore for modern becomes our has Vessel Barac C++ and Java* l*Cobol Codery Soins Soins Sono? Technology, Oct. 91. The reason it's tuney is that computer scientists were saving that Cohol was dead back in the 1990's and 1990's (Parson ally. I'm an MIS person and never holesed it care throw how much Cohel normalise the business world) College administrators and them. So colleges dropped it from their curricula, and composite ma agers told people with Cobol skills that their "skills recoded updating

time teacher at a community coli and have another job that has nothng to do with programming. In the late 1990's when I was at another college, I convinced a loculty committee to retain Cobol. but the college's management over ruled it. When my current college's computer science/IT arogram undecement a curriculum review a few wears back, I wrote a memo trying to keep Cobol in. It technically is still there but it's never offered () teach

and didn't him them. I am now a par

courses - not Cobol environs.) Versions C William eart expistent professor. Suffalk County Community Col-

lear Selden and Renturned NY Y TRANKS to Computerworld use of the mainframe and Cobal There are many Cobal programmes! analysts who have learned new tarbanianses utile continuens to concept the manifester 'sanddoor. annications. Some of us would be

interested in helping companies continue to use their Cohel spolice. lines, but we do not want to rais if these companies would work with us to support their Cobol applitons via telecommuting with per have a monthly trin to their foresting. they will find willing developers to hire. We are out here and available.

Retty Since Systems analyst, Richmond, Va.

THE ARTICLE says that 'a large percentage of (Cobol programmers) are rearing retirement age." However, the actual figures cited show a very small percentage of coders in the over age 55 category The current retirement age in the U.S. is 67, at least if you want full Social Security benefits. This supposts

there's a good 12 years or more left ing the yest majority of Cobal corders. Fears that the supply of coders will dry up are as essaggerated as namors of the death of Cohol Haelf or oral death of Cobol Douglas Kretoraan

WE WILL never run short of Cobol programmers. Plut we don't depend on schools to train them We can do that in 30 days All us need no conditator with good logic ability and a true interest in

helping businesses accomplish their Chan Clark IT director NPSCA Lincoln, Neb.

Dean Christs Cobol Applications Can Look Good

WAS INTERESTED to read in the article "Cobol Not Dead Yet" Technology Oct 93 that Sabile It's well suited to batch operations. the language isn't as good a fit for vinn interactive application or Web-based front ends.

DOS menufactures software for the auto/truck/agriculture dealer industry and we still articula radio in Cobol. When facad with giving our product a face-lift, we used Acucorp's new version of Acustim, which allows us to generate a "Windows"

ng screen while main solid business look. The results are a terrific looking dealership manappropri system that we were able to get to market in approximately han years with all the features um offered in the next nod more. I know of many componers that after hundreds of thousands of deliars and many years invested, have accepted their attempts to mission

their code to another platform Colom Culture Vice president oper Dubuque Data Services. Didome Inco Culture Culture and Addition and

Editor's Admissions Inspire Respect "VE KNOWN about editor in chief Don Tennant's additional and

personal integrity since long before he wrote his "Dear John" editorial and the plaquerium confession "Editorial integrity" [Editorial, Oct. 9). I wasn't surprised by either one. As a ignotime reader. That's the kind of integrity ('ve come to expect incutafter issue.

Tennant and Frank Haves have often looked had or had eon on their forces horsever of their truthly dress. But that's what makes them look good Computerworld's readers aren't stuned. Tennant has always held himself to a higher standard.

higher than we would expect. Many times. I have thought to muself He didn't have to write thei - who would have known? The proper is that he would have known

and that is why Computerwoold is Management the Year a because of consistent honesty that we have complete annual Physics about

Sand Miller Director of IT Winklife Ohio

No to Data Mashups

U SERS AREN'T Buly to wart culled a "meshor" ("Small Office 2 ft Vendors Ally to Fight Microsoft Google Threats, Computerworld. com Oct 12) Il's illu parrinna car

model the Lemna Geoffrey J. Rarich

Database/network adminis Thoracic Cardiovascular Institute Lansing Mich. engrick@itcheart.com

COMPUTERWORLD welcomes com ets from its readers. Letters will be edited for brevity and clarity. They should be addressed to James Ecide ters editor, Computerworld, PO Box 9171 1 Seven Street Francisch Mass, 01701, Fax (508) 679-4643 E-mail letters/formouterworld.com. lectude an arkivers and obone num ber for immediate verification.

migration Delays annexed data migration on it was? approach data migration so it won the tending project oray PAGE 24



-----Putting the Brakes

After looking at an acquisition target's netmost Mathia Thurman figures that he'll work, Mathias Thurman rigures that he protect the cornerate network PARF 96



Microsoft's Sock in the Vacuum nicrosoft s book in the vacca interface and file format that comes with Minerale and the format that comes was problems -- just like the wayward sock that propients - just me the wayward seek in-



dicted the arrival of "smart spaces" for years. Your car sends a message to a robot in your kitchen so it can have your martini ready when you arrive home in the evening. A software agent on your LAN knows not to interrupt you with a phone call — unless it's from your boss — because you're working on a presentation for a meeting later that day.

echnopundits have pre-



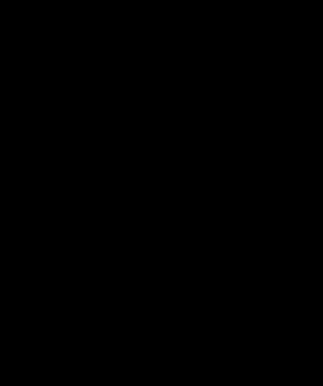
A computer in your exposery store recognizes you and prints out a remorted shoroing list based on your past purchasing patterns. It's fun to think about these comprise but we rarely encoun

ter them in the real world. Who besides Bill Gates lives in an environment in which [T source and responds to the behavior of the people in it? Your PC knows you haven't touched it for 30 minutes, so it turns on the screensaver. That's about it. Yet the technology to make our environments smart

and more responsive to our needs largely exists. Sensors of all types actuators radio frequency identification (RFID) tags, large touch-screen displays, digital cameras. personal software agents, machine-learning algorithms, voice: and image-recognition software, even robots - these aren't just the dreams of science fiction writers

The immediments to the widespread deployment of Continued on page 22

They may do that and more if the promise of smart spaces is ever realized. The technology is available, but cost and other factors remain obstacles.



An IT veteran offers six ways to All I rectain offers six ways to approach data migration so it won't Ular Apoid data reachmainstion PAGE 24



SECURITY MANAGER'S JOURNAL Putting the Brakes On Net Integration

After looking at an accussition types out. more Mathias Thurman figures that he'll have to essentially start from scratch to

Microsoft's Sock in the Vacuum Robert I Mitchell says the new user

interface and file format that comes with Intertace and fue format that comes with analysis - just like the wayward sock that process — just rise the wayward sock the pulsed his new vacuum cleaner PAOF 28



By Gary Anthes

recognizes you and prints out a suggested shopping list based on your past purchasing patterns. It's fun to think about these

scenarios, but we rarely encoun ter them in the real world. Who besides Bill Gases lives in them, in the real world. Who besides Bill Gases lives in an environment in which IT senses and responds to the behavior of the people in 12 Your PC knows you heven't bucked it for 30 minutes, so it turns on the screenareer. That's about it. Yet the technology to make our encode in superior matter and more responsive to our needs harpely exists. Sensors of all types, screensor, reals frequency identification (BPID) tags, large touch-acreen displays, digital cameras personal of view equits, matchine deraring algorithms.

THERASTRUCTURE LOG

_DAY 35: Whoa! Came in today and found a black hole. Information goes in but doesn't came out. This is bad. _DAY 36: The black hole just sucked in three interns.

_DAY 38: I've taken back control with IBM Information Management middleware. It's built on open standards. Totally scalable. Seanlessly unites all our critical information, whatever its source. Now our info has even business value that can help a sure growth.

Me got everything back from the black hole. Except

IBM.



Information Management

See innovative IBM Info Management solutions in action:
IBM,COM/TAKEBACKCONTROL/INFOMGMT

Command from page 20 Continued from page 20 smart spaces he elsewhere — in interpretability accuracy and soli shifter And them on the correl and arthur to the University to the second and Euteurn Conneiges, past new moca of And how willing you you to been them - the desirions for you to matter

Still apparent is being made for seem, progress is being made. For University have invented a collaboratoon enous called the iRoom or "in teractive room," A prototype included teractive rooms. A principle include rise displace show the walls a fulcot concern built dienless with own invest on interesting display that forthles as conference muon table and a variety of comorne microphones and wireless

interesting Indian Teams meeting in the iRoom can more information warmleasts among and from done and approximation and to room with them such as lantons and handbold. Any way can control any device on a windess LAN that con-



When you was have to store forms in an inhat you may about to focus on ing on what you care arous to not are

Committee and 1954 committee with

Georgia de Indersection, la **Ruilding an F-office**

Strelense Inc. in Grand Rapids Mich.

to devolute filtre Space, a produtting of

Contract and a feet on a street of the

on office erose. Guided by mer com-

membraic space croude of their and

sensibation and lighting and control

interpretations donoraling on the per-

aved behavior of the occupant.

"steerable" projector that can project

increase projector time carryropeer

other detectors the occupant's incom-

ing a small is cost by the pariod of to

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The IBM/Stoelcase prototype is in-

of the concept enve

Crefer Hild conion

coopring constrories solutions at IRM

Research The non-

totune corner those

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Grounded Support Winnered area "In overy during of interaction that's a concern

as But what you contract you necessary associ

pers can dynamically optimize heating. langer Hild rose First such projects tend to incorporate scores, if nor humtend to incorporate acores, it not not canable of monorating torrents of data Coaling up networks control process Aided by a sensor in his deal chair and Scanning up intraores, central proces

that is an obvious challenge he says. "But a much decreas irone" Hild says, "and one that will be wish or for many worse to come is that our IT consens to fan am ontimined to process data extremely reliably but not necessarily very fast " In contrast const assissements assembly must nnoces sensor input in milliseconds A collision-moidance regrets in an airedone must mast immediately A nackage hearing an REID tag moving across a receiving dock must tell a

worker within a second or so where to out it, not five minutes later. "Marrying this real-time world with the transactional world is the real

challenge we are facine " Hild says. The Dark Side

Hit our our recorrehers about the reliability of increasingly complex, distributed and heterogeneous systems. "One of my warries is an are not building circuit handon into interested business processes" he says "What will hare non eventually in that a faulty sensor reading somewhere will have a ripple

effect through the network and cause untold damage community of the Weneed something that knows what normal is and, if it's widely outside the norm raises an alarm "Reliability is a major, major issue

that's not being recognized at this point," agrees Leonard Kleinrock. a computer science professor at the University of California Los Aperles. and one of several engineers credited with creating the Internet, "The complexity is essentially out of hand We used to think that the systems we

built we could understand but ther's no longer the care."

And things will see over more over nier as we move to smart homes of ficer factories stores and automobiles Visional sees Wilesen designing on the order of I billion microcontrollers a year in the car in refrienrators and on on But they become your fully on essed the end user and they are not naturaried But I son that coming It's minute commiss accords when they

begin to interact with these devices" Score Hadron's studies of homen behavior are aimed at making smart environments more acceptable to their comments Hudson a professor of human-commuter interaction at Carregie Mellon Heisersity cars people have traditionally thought that the interruptibility of an office worker depends primarily on two things; how decely the worker is engaged in an important task, and whether the

worker is socially engaged with another person, as in a phone call with the former and in our standing that it's much more shout social enesesment." Hudson says. He says his and reference solth codes detectors in workers' offices show that a system one predict the workers' williamore

to be interpunted at any given moment. with 85% accuracy Asked about machine learning and

statistical models that might eventually tune emart offices to the habits of each unique occupant. Hudson says be has been surprised by how well certain techniques work across groups. But in the end," he says, "I think we'll want to so to individual models for that

extra % or 10% of accuracy." But isn't 90% good enough? "Well, you can say it's pretty soud, or you can say no, it's wrong one time in 10." says Hudson, Many users find that kind of experience frustrating and un-

acceptable, he says.

have beloful they might seem?

the devices and applications and to north everything

FAM HILD, SENIOR MANAGER FOR RE

To make it all work, researchers crysted what they call the Interactive Posen Operating System or 1905 a metaoperating system for tying tonether deporate devices. "We have taken the operating system idea to the space level, so people can coordinate their month in the continue most with multiple devices," gays Terry Winaared a commuter science professor at

Winnered and his students are now moving on to specific applications. For example, they are trying out the interactive table on people with Asperor's conditions a type of nation Such people often are whizzes at using comnuters but poor at working with other people; the hope is that the table might

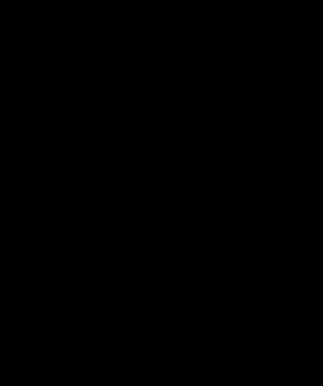
help them improve their social skills. Winograd says a key impediment to users' acceptance of rich, multimedia spaces is "distluency," something IROS was designed to minimize by making the technology as seamless

ized hardware and high level of integration, the system is not practical for most companies. "The investment of taking an office

building and enabling it that way is fairly high." Hild says, "But you can net 80% of the benefit with 20% of the cost." A follow-up project at IBM called mySenec aims to give office workers greater control over their work engage months using technology almost in more office building

"So if you have a wireless ! AN inyour office, it implicitly also gives you a lucation system because you can get the 802 II endogints such as your (Instant) so last the location of my co-workers." Hild says, "And you may know voice over IP as a telephone system but VolD in your office building also gives you a level of presence in formation. And if it's integrated with

my calendar, you can use the system to figure out when I'm available." But widespread deployment of smart spaces faces two tough chal-



Continued from page 20

et spaces lie elsewhere — in the smart spaces he elsewhere — in form of problems related to cost republish someon and relishiften And these one the recial and cultural challenges, but how much do continue chancenges, just now much on And how william are you to been them make decisions for you, no matter hose helpful they might seem?

Still progress is being made for example, researchers at Stanford Holomotry have insented a collabor tion many called the iRoom or *in teractive room." A prototype include reveal whitehoard-size touch-sensi tive displays along the walls, a 6-foot custom-built display with oen input. an interactive display that doubles as rence room table, and a variety of company microsol

interaction devices. Teams meeting in the iRoom can the devices and applications and to and from devices they being ions the on with them, such as laptops and indibelds. Any user can control any device on a wireless I AN that con-

nects everything. We need something that knows what normal is and, if it's widely outside the norm, raises an alarm.

To make it all work, researchers rested what they call the Interactive oom Operating System, or IROS, a metasperating system for tving toer disparate devices. "We have taken the operating system idea to the ice level, so people can coordinate ir work in an environment with ple devices," says Terry Winoered a commuter science professor at

Winnered and his students are to oving on to specific applications. For example, they are trying out the intertive table on people with Asperuer's syndrome, a type of autism. Such people often are whizzes at using comes but noor at working with other

ple; the hope is that the table mig to them improve their social skills. Winograd says a key impediment to unear acceptance of rich, makime-dia spaces is "disfluency," something OS was designed to minimi

insparent as possib ind transparent as possible.
"Whenever you have to stop focus-

ing on what you care about to focus on how the machine is doing it you lose fluence * Winnered sees *10 corre nuency, winograd says. In every

you want to bring to it." Building on F-office

Several years sen. IRM teamed up with Stockense Inc. in Grand Ranids Mich. to develop Blue France a protestore of fice that integrates sensors, actuators, displays and wireless networks into an office mace. Guided by user commanufacin touch common these and sets can dynamically optimize heating. ventilation and lighting, and control ceived behavior of the occurant.

The prototype room even has a images onto any surface in the office Aided by a sensor in his deak chair and other detectors the comment's incoming e-mail is sent by the projector to the surface most likely to be visible to him at a given moment.

The IBM/Steekase prototype is inof the concept same Canfor Wild assists

enconsino enterorisa aphations at IRM Research The prototype serves those two purposes, he save but because it requires special-ized hardware and furniture and a high level of integration, the system is

not practical for most companies. "The investment of taking an office silding and enabling it that were in fairly high," Hild says, "But you can uet 80% of the benefit with 20% of the cost." A follow-up project at IBM called mySpace aims to give office workers greater control over their

work spaces, mostly using technology already in many office buildings. "So if you have a wireless LAN in your office it implicitly also gives you a location system because you can set the 802.11 endpoints, such as your intensal so I set the location of my co-workers," Hild says. "And you may know voice over IP as a telephone sys-tem, but VotP in your office building also gives you a level of presence in-

formation. And if it's integrated with my calendar, you can use the system to figure out when I'm available." But widespread deployment of mart spaces faces two tough chalGrounded

lenges, Hild says. First, such projects tend to incorporate scores, if not hap deeds or thousands of devices, each anable of constrating torrests of data Scaling up networks, central proces sors and storage systems to handle that is an obvious challenge, he says. *Rut a much deeper issue * HILL save "and one that will be with us for many many to come in that our IT systems today are ontireized to process data extremely reliably but not necessarily wary fact * In contract

smart environments generally must process sensor input in milliseconds A collision-avoidance system in an airplane must react immediately. A nackage hearing an RFID tag moving across a receiving dock must tell a put it, not five minutes later.

worker within a second or so where to "Marrying this real-time world with the transactional world is the real

challenge we are facing." Hild says. The Bark Side

Hild echoes the concerns of many researchers about the reliability of increasingly complex, distributed and energies systems. "One of my worries is we are not building circuit breakers into integrated business processes," he says. "What will have nen executivally is that a faulty sens

reading somewhere will have a ripole effect through the network and co untold damage somewhere else. We need something that knows what normal is and, if it's widely outside the norm, raises an alarn

"Reliability is a major, major issue that's not being recognized at this noint.* aurres Leonard Kleinrock, a computer science professor at the University of California, Los Angeles, and one of several engineers cred-ited with creating the Internet. "The complexity is essentially out of hand. We used to think that the systems we

built we could understand but shorts no longer the

And things will get even more comalor as we move to smart humes of. form fortening stores and automobil nces, factories, stores and naconcome statement case, "We are deploying on the order of I billion micros a year, in the car, in refriegrators and so on. But they haven't yet fully ensaged the end user, and they are not gaged the end user, and they are not networked. But I see that coming. It's going to surprise people when they begin to interact with these devices."

Scott Hudson's studies of human behavior are simed at making smart environments more acceptable to their occupants. Hudson, a professor of human-computer interaction at Carnegie Mellon University, says people have traditionally thought that the internantibility of an office worker depends primarily on two thines: how deeply the worker is engaged in an important task, and whether the

worker is socially engaged with another person, as in a phone call. *But it turns out in our studies that ir's much more about social engage ment." Hudson says. He says his neers with voice detectors in searkers' offices show that a system can predict the workers' willingness to be interrupted at any given mom with 896 accuracy

Asked about machine learning and statistical models that might event ally tune smart offices to the habits of each unique occupant, Hudson says he has been surprised by how well certain techniques work across group "But in the end," he says, "I think we'll want to so to individual models for that

entra 9% or 10% of accuracy.* But isn't 90% good enough? "Well you can say it's pretty good, or you can say no, it's wrong one time in 10," says Hudson. Many users find that kind of experience frustrating and un acceptable, he says, 8

THERASTRUCTURE 100

_DAY 19: The business is, uh, coming apart. I.T. isn't in sync with the suits. No one's sure what they need to do. It's totally out of control.

DAY 28: Gil fell into the crack, Maintenance is on it.

DAY 24: I've got it. ISB Rational. A modular platform
that lets us govern the entire development process and
align it with our business goals. Now everyone's on
the same page. Plus, we can ensure our software's in
compliance and implement a service oriented architecture.

Fevrome's Goal the crack is gone Gil Saws his.

CBM



MATTER commuter runtem to a near and the standards ward. There are common whater practices that can industry practices that can halo such as punning fields a receipt poen so remaining men mapping and conversion scripts, and wind carried transform and sood to you way stock data magnation so offers with ambarranian delays that draw on

to my experience, the delows are often the result of cetting off on the wrone foot — failing to adequately plan the approach to data migration at the curses. The technical issues can be user. The technical issues can able to the newtechnical strature that 6- a state to the desired and the send

a En cinca rassing a

The goal of data migration for consurecion) is to move data from one mortom and the data fields in a new content with as much accuracy and completeness as nourible Memore six were IT menorers near accomplish this years countles surely with less stress and fewer delays.

ET ANDER DATA SYNCHRONIZATION COMnanies often run the existing system and the newly developed replacement system in morallel while they test to one if date conversion is working properly. There's a

natural temperation to write data synchro-A state of the state of the state of keep the two systems' data in sync The problem is that you may be writing hundreds or thousands of lines of code to create these routines, which become essentially a third system with its own set of burn to fix. In extreme cases, maintaining these data synchronizaalon and into taken on a life of its own with so much time spent fixing syncharacteristics have that little or no effort

goes toward finishing the new system. Synchronization almost always creamen delegar. It wilds two many lawers of complexity for you to maintain your saoity and your project schedule. **EX** DON'T SHY AWAY FROM DOUBLE ENTRY

If your new system requires validation of data that's manually exceed, such as customer orders, you should really push for double entry. Try to get users to enter data twice in the old system and the new system, and then reconcile any differences. This will be unpopular, but you won't need data synchronization ros

tines, which (as we've seen) cause delays. There are side benefits to this approach, such as uncovering more of those troublesome exceptions and anomalies that pop up in the real world of data entry. Users will get more prac-



AVOIDING DATA How to handle data conversion so it won't

tical training on the new system, and they can provide more constructive fredback on the user interface. Plus. ww/II have an incentive to finish test-

ing quickly so you can end the paio of double entry as soon as possible. ET DETERMINE THE "SYSTEM OF RECORD. Many data commercion projects start by asking, "What data is stored?" and "How much of it must be converted? These are good questions, but an even more fundamental question is, "Where

is the system of record?" The system Rules of Thumb

wreck your project By Michael Strange of second is the definition source of a particular data element, such as an account number or customer selfress If your new application is going to be the system of record, wou'll need to pay erren attention to data quality which will require more testing and verifica-

tion time. Incorporate this extra time into your schedule so it isn't a hir late numerica And remember that the system of record may vary for different portions of your data model, which can make the situation even more complex If the new system isn't the system of record for a particular data element. then data interestion - nechangusing Web services - may be a better way to

ES GET AGREEMENT ABOUT WHAT "DONE MEANS. With large-scale data conversion, you usually don't achieve 100% data perfection. So hammer out an agreement on the definitions of compiece and verifiable. Are you going to spot-check selected records? Are there variance reports or comparison reports

on then data conversion.

data will be checked?

Some project teams set a deadline for this activity, allowing a certain amount of time to verify the data and correct

and income that arises Best it's harrow to any issues that arise. But it's better it frequency and the expected results. Avoid the citration where your CIO Avoid the situation where your Cit asias, "Have you checked all the dat evolvin that absolute guarantees arro't possible — that should have been made

S CONSIDER STABING HISTORICAL DATA Charter patrone resumb referent more back to isolate testing activities and then no around testing activeness and their

phanoit - that mound

data or a subset of production data. But instead of faking it a better ansevery may be to proposulate the pers process using me to prepapatate the ne-system with a full set of real resolution. tion data. True more will have to be more comful with this data than they more Caretin with this data but the editor. rano in that you'll be testing your datamicrotion excious on comething that mimics the production system, in all its clory and problems. One side benefit is that wou'll not an excellent understand ine of response times under a full data load Even better, you may eliminate the need for a complicated and nerveracking last-minute conversion.

THE CAREFULLY PLAN THE LAST AND ITS DATA CORNERSION If were custom

project includes extensive last minu conversion wou'll likely be marking a weekend to do the final cutomer. To avoid nasty surprises, remember that the servence in which was do the data communica matters because of dependencies inherent in the data groved Vous can't successfully nour data into fields that how built-in constraints that will reject the data. For example, if the new database requires a customer account number before adding an address the customer account list must be migrated first -- or you'll need to temporarily relay those constraints so you can procord. To uncover these dependencies. test the loading sequence ahead of time. Then, during the weekend conversion, pouse after each loading step to

wrify that it really worked. You don't want to get seven steps into the process only to find out the first one failed. Consider these issues before you start data migration, and you'll identify the hidden issues that can cause unexpected delays. And maybe you'll sexually finish the weekend conversion before midnight on Sunday.

Strange was until recently senior vice president of IT at William O'Neil Co. in Los Angeles. Contact him at mstrangel234@yahoo.com.

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8:30am to 8:40am Introduction and Overview Ron Milton, Executive Vice President, Computerworld

Market Overview and Trends
Michael Hugos, Former CIO and Author of Essentials of Supply
Chain Management and Building the Real Time Enterprise:

9:20am to 10:00am

Application Performance at Broadcom Corporation:
An End-User Case Study

Ken Venner, Senior Vice President and Chief Information Officer, Broadcom Corporation

10:00am to 10:15am Refreshment and Networking Break
10:15am to 10:50am Application Performance Assurance Case Studies:

It Pays to be Predictable
Andrew Hittle, Vice President, Quality Assurance Solutions, Compuware

10:50am to 11:25am
Application Performance: An End-User Case Study
Kenneth Speller, Director of Quality Assurance, Chicago Board of Trade
11:25am to Noon.

Panel Discussion.

Moderator: Rom Mittor, Executive Vice President, Computerworld Parelatics: Michael Hepper, Fromer CIO and Author of Essensible of Supply Chain Management and Building the Real Time Enterprise: An Executive Briefing: Andrew Hittle, Vice President, Quality Assurance Solution, Compusers: Ken Vennet, Senior Vice President and Chief Information Office, Broadcom Composition; Kenneth Speller, Director of Cularity Office, Broadcom Composition; Kenneth Speller, Director of Cularity

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Committee to the all and a

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Next up was unaccentable

Putting the Brakes On Net Integration

Assessment of acquisition target's network tells our security manager he'll almost have to start from scratch Rv Mathiae Thurman

movine shead with on nomici with an acquest back in Assessed and last work Lorendeted my initial access completed my minute associ that will arise in integrating that will arise in integrating

and the part market be I winited our acquisition for and main officer in Connecti-

out and New Mexico. I brought alone a t prougan arrong a comments to come much of the assess met with the manue. ment team to learn

about the company's business necessar intellectual property issues, policies and so on We could just install Multi entocal Label Switching MDI 6) to compart there of fices and their 600 employees to my company's network, but that mould accordially grant

them recess to a majority of

our internal infrastructure. As the security manager I can't allow that until I can youch for the interrity of the acquired company's network and the efficacy of its policies. Most likely we will want to bring the new company's policies to line with ours, since this year we suffered only one major virus outbreak, the result of an employee connecting a per-

sonal laptop to our domain. In assessing the issues we faced. I focused on several key areas. The first was malicious code. I need to ensure that we don't introduce anything like vinuses, sprware or Trojan horses into our network. To determine if this company has any malicious code running free. I had the consultant con-

don't work Dish off he Guct some scaus. Right on, in ound indications of spyware of dechtors "celling home" to transmit keystroke capture files or other collected data Masses a feasible available post ressus, a freety available por

of mulicious code listenine in on nonetandard rosts Next, we focused on onestionable automal connections sure that this com SECURITY nany dishit allow third-party access to

its network and that 1 6 VDN and window access points wouldn't allow and the standard second State

time, we ran into a counte of mak, we can made a couple of Committee of minutes After The company was using WFP with a shared key, but it hadn't changed the key in years and the AP terminated on the in-My company's standard is to

ore W/PA with the Temporal Key Integrity Protocol, and we terminate the access points on a virtual ! AN so that the only device that can be reached is a VPN eateway This forces all employees to use a VPN to get into our network from the access point I'm not touting this as the most secure means of providing wireless access. but it's a lot more secure than

nounes-code repositories file servers, firewalls, VPN con------did so, it was obvious that no one had taken the time to conduct any type of configuration management or general maintenance after the servers were built. Patches were out of date No password policy was being enforced; administrative posswords were left blank or were

easily crackable. There was

neodoctivity problems

into issues that might arise

from the company's critical devices domain controllers.

dore Problems

even a SOL navroll database even a sign payron unanass for the administrative account The deckton and course virus The desirop and server virus protection engines w

As you can make there's no way I'm maine to allow our no way I in going to 2100 out circuit without come perious curcuit without some serious remediation to start with, I mancating that all desirops and according to the int for both operating systems core to the company's internal and applications. The latest perwork months very large views agains and asttern file side the commany's registered will and to be invalled and all everems must be scanned and free from mulicious code shout Some Internet searches Anything that can't be cleaned amounted that the address range will need to be rebuilt

The company will have to work interration commany one configure its domain to enthat I bearoad was bired for a force a strong password policy. sod all administration and 20 Ann numbered moon than two privileged account passwords will have to be changed I'm having the critical corrects to block many of the common checked with RootkitRevenler peer-to-peer software technol-CHECKED WITH ROOCKHROEVE ories and we filter Web restlic downloaded from Microsoft's at our cachine servers to one Web size. It essentially lists remistry and file-system API want amplement from howevier discussion that may indi cate the presence of presence unaccentable, such as norn or symbling sites. This time scan kernel mode rootkits

data observed that many arra Now I know that comsustant such as engineering software And the company development and lab servers doesn't block outbound Web will be exceptions. And of course, we won't know about ----to visit any Web site at all Ma all resources. So I will also be company's view is that nofermandation the installation of tered access can lead to varitwo intrusion-protection devices One will sit between the our level human resource and two companies (on the MPLS

circuit), and the other will be between the acquired com-Areas of concern were mountpany and its Internet circuit. ine, and we still hadn't looked I'm boning that with this rden nive some additional policy enforcement, I'll be able to limit any illicit activity from reaching my company's network. I'll keep you posted.

WHAT DO YOU THINK?

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de Feditor's X01200 The list price of the - 000 700 The 182000C will in in the first master of 2007

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PORERT I MITCHELL

Microsoft's Sock in The Vacuum

HORTI V after my daughter was born, my wife and I decided to turn in our old canister vacuum for a spiffy new upright model. But the manufacturer's inattention to one small detail ruined the whole experience Just seconds after I unpacked and turned the thing on, it sucked up a baby sock hiding under my daughter's dresser

The overlooked detail ne overlooked detail ister vacuum the unright model's motor was in front of the debris has rather than behind it The sock his the impeller on the motor and promptly inmed Refore Leveld sten on the nower button the motor went up in smoke. A week later, we

more pring our familiar old conister vac again For the soon-to-belaunched Microsoft Offine 2007 the each in the vacuum is the new user interface 11s. our who are comfortable with the old

Office interface may get all jammed up before they even open a file. Where's the File menu? It's cone replaced by the Office Button, a colorful, diskshaned graphical phiect. Somehow you must know to click on that button to find menus for basic functions such as

opening or saving a file. The familiar File Edit View Insert menu system has been replaced by a context-sensitive Ribbon har Many functions have been moved around and regrouped in ways that may seem illogical or confusing to experienced

After the initial shock wears off. Office 2007 users will find much to like about the suite. The challenge will be getting people over that initial hump and keeping them from blowing a fuse during the transition.

lensen Harris, principal lead program manager for Office 2007, says IT should expect a "temporary loss of productivity" as users come un to more life exnects "recovery" in one to three meeks Operanizations that plan to move forward with Office 2007 will read to sell users on the benefits and roll this version out with elenty of training and support resources to swild enduser frustration

Computerworld recently comparer works receive beta testers and found that most of

them like the product and 72% said they have upgrade plans. But the other 28% expressed strong negative feelings about the user interface. The strongest reactions came from advanced users who are beavily inwested in the existing user interface.

Diane Pencil, lead enterprise architect at Owens Corning, says there's somethine soothing about clicking down through the menus to find those familiar functions. "That's what these new processes mess with," she cave By the way, if Fureka had installed a simple, 10-cent circuit breaker button

on my unright vacuum. I might still be using it today. Likewise, it would he nice if Office 2007 had a little red button that allowed you to fall back to

"classic" menus Then again, because the new user interface is a key benefit, enabling classic messes would defeat the purpose of unoradine it would also make new

features unavailable If training isn't enough of a challenge, there's another sock in the vacuum: the Open XML file format that debuts in Office 2007. Although Open YMI has clear benefits IT administra tors who went through the Office 97 transition may recoil in horms at an-

other format that's not backwardcompatible, despite the fact that Micro soft has introduced tools it says will make the transition to more emoothly Microsoft wants everyone to immediately described a new compatibility nack that will enable Office 2003. XP and 2000 ware to send door and other Owen XMI file formats. But setting everyone to swallow that 26.6MB comnetibility nack won't be easy. Not only will your company need to make the transition but your business partners

Many sa Illian Even if everyone does download the compatibility packs, things can still get lost in the translation. In some cases new features will be eliminated or

dumbed down For example, document objects such as the new Smart Art set calcified into hit mans when viewed in Office 2003 or earlier in compatibility mode (but are "rehwdrated" into Smart Art again when the Office 2007 user opens them).

Fortunately Microsoft did install a circuit breaker for Open XML: You can set a group policy to have all Office 2007 users default to saving in the traditional binary format Although that means some features will be unavailable, IT should push that button at least initially, Formoing Open XML may not be optimal in the long run. In the short run, however, getting users to swallow the new interface will be

much more important. WANT OUR OPHWOR?

Got Questions About Wireless Security?

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The growth of weeless networks within the last few years has been explosive, and as a result, IT deep interest has been explosive, and as a result, it is supported to the properties of weeless schrödiges. These are less continued to decide to displace to migrate fax, and users continue to decide ways around available controls or wieters serviced. It displacement is of the wieters are below the design to the militage in the control of the properties of of the prope

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8:30am to 9:15am

Q-15am to Q-45am

9:45am to 10:15am

10:15am to 10:45am

11:15am to Noon

Registration and Networking Breakfast

Introduction and Overview
Ron Miton, Executive Vice President, Computerworld

Market Overview and Trends
Ken Davis, Chief Information Security Officer and Partner,
The Barner Group LLC and former CSO, Allstate Insurance

End-User Case Study: The Weather Channel
John Penrod, Chief Information Security Officer, The Weather Channel

Industry Visionary Presentation
David J. Thomason, Director, Security Engineering, Sourcefire

10:45am to 11:15am End-User Case Study: TD Ameritrade
Alan Lusticer, Security Architect, TD Ameritrade

Discussion Panel
Moderator: Ron Mittor, Executive Vice President, Computerworld
Panelster. Ken Davis, Chief Information Security Officer and Partner,
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A Small-Project Playbook

Managers' Forum

the amount for the It was here to rek that probOBINION IT We Have a Problem

The state of the state of 11 - mary manager against business respondence to be a control PAGE 36

It's hard to pin an ROI on the flexible workplace, but IT managers say it pays off.

with around After inclusion on the soluhave seen blood out force it) hour days so he could has every Enday off, as chedule that would allow him to play Thursday to the second by the second by the second wares our shoot the west day's work Man II so a new month - no but Finlan, deputy

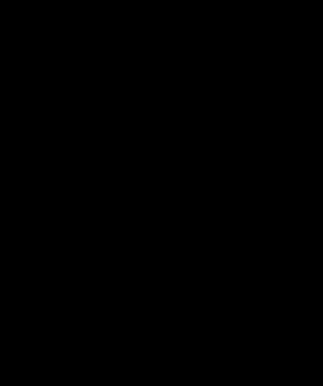
t IO at Partners He lithCare System to on Boston, OK'd the plan, "He was squart and talented, and we is an art of the larger from " who are of since Har declares read of the strend with Partners for nearly a decade. As Finlay's story shows emphases an mit the code own who not come

thing out of the Shifter in a cody other. ules. Companies do too Acrost text furning any hard to come by Confirmed on name 12

BALANCE:

MARY FINLAY deputy CIO at Partners HealthCare says that flexible





IT MENTOR A Small-Project Playbook

Enabel coaches use phybooks to ensure accurate coordia nation among team members. Tom Barnett (right) save a project playbook can serve the same purpose — especial-



Managers' Forum How can you tell if your IT

now can you ten a your 11 If you have to sek they probably if you have to ask, they proba do, says Paul Glen, PARF 34

IT We Hove a Problem! When Paul Incovident toucht an

MPA class recently be learned that IT's image among young business people is as had as ever PARE 38

It's hard to pin an ROI on the flexible workplace. but IT managers sav it pays off.

night gigs with his rock be worrying about the next of Many IT executives wo say no, but Finley, deputy

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Companies that promote a healthy work/file balance generally have cor poratravide policies and guidelines that allow individual employees and their managers to set on flexible.

work arrangements.

That doesn't mean that all If jobs are satisfie for every feeble arrangement, however, says May Finity deputy OD all Partners HealthCare System. For example, she says, employees whose duties include them a toking OD's and other hostones could.

Some production support positions can't be done part force or from home, adds, senior project specialist Lisa Adagina. And some technical support positions had to patient care speciens need to Millow com business hours because of their critical.

work nontraditional hours.

The same is true at American Century Investments. "Some prospie have to physically be here." says Meth Lette, a network engineering adviser. He points to the computer operations group at his company as an example." They have to be here here as the

they're swapping out lapes or dold drives." Some companies are note restrictive in June, Hewater Packard Cor brough back who the office some IT employees who had been anning from home. An HP spokes man rold Compatenent'd at the time that the move was to "bottlater lacer for face in relatation and increase lacer effectiveness."

On the other hand, some IT sheps are finding that postors for go resurced to be indiceduant can be done remotely part three or during nonhaddinant hours. "Today there's not a whole last If can it do from home." Little says. That includes dealing with a cross such as a network crash in the Little says that is not be there can be better for the company than during that lend of problem lends.

Life and others in network services are equipped with lightings and have throatband access at thems (an express the company picks up). So if there's a network problem at 2 am, not only can they study his it from here but they can also do in with significantly less dewritme than would be required if they had to committed to the office.

MARK IN PRATE

Contained trempage 30. But we make a migration to taggible returns from good regulation rates formule complete, dissect recovery plans. These with the fortout line is this 10 yearing employees the define, a company gets a better more committed workforce that our lifely feet up and rumming even during natural or more mode consistent of the content of

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Good Business
Study after sands shows that it is esstudy after sand shows that it is good
business in provide the adult the year
emphoress. Sing. Furthern Winford, in
noral three we it workplace solutions at KPMI-TIP and and Just and business advisory for tim New York. The
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of these things improve when people
of these things improve when people

window and time use yourse. Window and the workers can optor the Hestimes which they are window they work mortafolismal hourse or a compressed work work, planting in their Bullours in leaves than the days. They can teles omnute from hours or a KPMI feet willing that's more convenient than their assigned office they can cut back on everyon diffuse and work feet hours.

other and heat they work

reframanties and won-receiving the nasc de niberda return on meets that no these programs, but Wandoof say, there is no don't that the time benedits she care. Some joint but the work she care. Some joint to the work associate three some it. It he without worked at k1MM he to ve yours and If the nast the controlled in protones adjugge from programmer to a kee-

Bendurkers a shirt employee, so the processing of the processing o

So Demburski now works from homthree days a week and commutes to the office the other two She says she probably would have quit if she hadn't been able to a back that behaue.

If that faid largewest, Warthoff says, a conjugar would have made in the first second transfer and their in the second second training as standard from an investories in the second sec

There are absormangable costs as sociated with losing someone who has a minderstanding of the business that comes only with tenure, Wankolf alds. Laure Bierstonk, a compensation

and sea themsons, a compensation and sea themsons consultancy Watson Wyan Worldwide, consure. The typical costs of turnover per employee without even realizing you have lost producing in an all mitchest and property constraints on the firm farmer condensa-



Here's what 1.311 senior utries workfalle shabut workfalle shabase:

and Pay Asset of a control of a control

nourasinoual hours. They can also work part time, share jobs or telecommute. One benefit of such the debits (see punded covering). One II manager who has a turn, for exemple, works 7 am to \$00 pm, so the still has time to tend to the part of the part of the part of the part of the \$00 pm. so the still has time to tend to

Barthowski says flexible arrange ments also help the company plan better for disaster recovery, as hot-button posite this year becomes of the charger of an arran the pandemor.

"With records referentiatings if you

have a structure at your bridging, you have people who can still here you'ver, and share people who can still here you'ver, and share people who can still here you'ver, and there, the adulty to have people we othing from home becomes more of a brunness need."

Annular beauties more used poolinging the people who was a proposition of the people of the people who was a people of the people who meet him meet him sundersed with our meet him sundersed at the control of the meet him sundersed at the control of the projects that meet him sundersed at the control of the people of the people

have a bunch of documentation to do.

it's more efficient for me to stay at home than to come in where there's a constant stream of intermittants. The says

Highly Committed

Highly Committed Studies confirm that companies with work life programs, which can include our site fitness centers, help with child care or paid time for committies based solunteer opportunities, procade an observe in Montonel, or

Lacky out. Wiston Wy at published report called IT be Strategi Rossulds Stady, which common U.S. organization and the Stady which common U.S. organization times with 1000 captiveyers or more. This year, it holded at top performers and 2ct companies. These worders who second or far envelod minagers' experiations during their most recent reviews periads. It bound that of those who proported home your Air Bodden, "Ay or considered themselves highly committed employees. If hip performers who dad not have sorth. It belongs was described themselves highly commit-

Finity can artest to that, She says work life options errore "a very satisfied, hard-working group of couployees. Linon, and I've had no test this multiple times. When I need people to rally. I've never had a challenge. They're roady and willing to give."

Lists Adragats has worked at Partiners Health Line for 210 of the 22 years she has been out at college. She started as a full-time programmer and progressed through various positions and schedules as she gained experience and expanded her family.

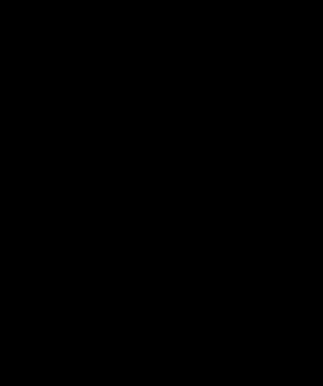
Adraens worked part time, shared

an ages we see or unit of such a play with back to full time when she was promoted to originate IT manager, and then cut back her hours to work as a partitime some project specialist after the birth of her third (full in 2000 Adragan started working full time again in 2003, although she works from houre size or see or

With a solid knowledge of functional groups and institutions under the corporate umbrella and lots of experience with the older systems at the various hospitals. Adragina is clearly a valuable near to Bottom.

But she says she's particularly committed to being a standout employed because of the accommodations the law had once the years. "I heel like! want to prove myself even more by cause they be given me this desibility." Adraging says. "I want to prove to them that this really works."

Pratt is a Computerworld contributing writer in Waltham, Miss. Contact her at marylapiatr orienzamine).





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their managements or out up therefore mark arrangements. Their descriptions are their descriptions that all II pales are admitted to every families arrangement, money, map latery Fridge, despubly CO at the terrors it had bloom by descriptions.

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Some productive support positives can't be since port time or from have, with moise positive support positives fast to make project specialed Line Advance. And some indicated support positives fast to patient core patient most to faither core installed home becomes of their collection.

The name is time of Journation Clerkey constituents. Some purple leaves to globinally in law," ange Koth (Illis, a restreet) and the companion of the comtant companion of the law becames the parameter of the companion of the law of the companion of the companion of the Same companion are come verificate. In these, Market (Section Co. Section In the companion of the comp

to more sum to Tacilitate face to face inmacian and increase have eliminated and increase their On the place hand, assess II along one should be provided to be presented to be discussed can be done remainly, part one or dissing neutralities of hours. Today, hour's not a whale left can't do from more, "Life mys. That includes challing to the part of the part of the left of the part of t

or, thing that litted of problem from Jorea on his heller for the company then delay the healthcod way. Life and others in naturals services are appead with hydrops and home branchered

quipped with legrape and have breathend access of heare (on expense the company action up). So if there's a network problem if Zam, set only one thay weally its if not access, but they can also do it with signifmely less describes then would be registed. They had to exercise to the office. Continued from page 30 but executives can point to tangible returns, from good retention rates to more complete disaster recovery plans. They say the bottom line is this: By giving employees flexibility, a company gets a better, more committed workforce that

can help keep it up and running, even during natural or man-made catastrophes. And that have real dollar value.

Good Business

Study after andy shows that it is extremely cost-effective and very good business to provide flexibility to your remployees. 'says Burbara Wankoff, national director of workplace solutions at KYMG LLF an andle, tax and business advisory farm in betw York.' The physee morsile, employee productivity, recention, historical knowledge — all of those things improve when people

where and low they work."

Wanked Jays RPAG workers can opt
for flextime schedules — in which they
work nontradictional hours — or a compressed workweck, putting in their 40
hours in fewer than five days. They can
telecommute from home or a KPMG flecility that's more convenient than the
assigned office. Or they can cut back on
certain duties and work fewer bours
not calculated a resum on investment
not calculated a resum on investment
for these programs, but Wanhoff savs

She cites Norma Jean Dembinita, an associate direction in FT. Dembinish has worked at RFMG for five years and in Tf or nearly 30 years, hoding positions ranging from peoprammer to vice president of information systems. Dembinish is a valued employee, so the boss want too happy earlier this year when she heard that she was thing of quitting. Dembinish, who works in the Montrale, N.J., office, was getting married and moving to Connecticut. She

there's no doubt that the firm benefits

in the Montvale, N.J., office, was getting married and moving to Connecticut. She told her boss that the 64-mile one-way commute would be too taxing. Her boss asked if they could work something out. So Dembinski now works from home three days a week and commutes to the

office the other two. She says she probably would have quit if she hadn't been able to achieve that balance.

If that had happened, Wankoff says.

the company would have paid for it. Based on standard human resources industry numbers, she figures that it costs 150% of an employee's salary just to find a replacement. That includes the costs of advertising the position and training the new hitra, as well as the time managers spend reviewing candidates. It doesn't include the new person's salary.

There are also intangible costs associated with losing someone who has an understanding of the business that comes only with tenure. Wankoff adds.

comes only with tenure. Wankoff adds. Laurie Bienstock, a compensation analyst at business consultancy Wasson Wyatt Worldwide, concurs. "The typical costs of turnover per employee without even realizing you have lost productivity and instellectual property

cast rule due to make Cappoper salary," the says. Improved retention and the associated savings aren't the only benefits of flexible work arrangements, says Janice Barkhowski, who supports IT as director of human resources at American Century Investments in Kansas Giry, Mo. At her company, IT staffers can work

nine days or 40 hours in four days) or

nontraditional hours. They can also work part time, share jobs or telecommute. One benefit of such flexibility is expanded coverage. One IT manager who has a farm, for example, works? A.m to 3:30 pm. so he still has time to tend to thines as home after work. Others work

Barthowski says flexible arrangements also help the company plan better for disaster recovery, a hot-button issue this year because of the danger of an avian flu pandemic.

lates shifts

"With people telecommuting, if you have a situation at your building, you have people who can still keep working," she says. "Because of avian-flutype issues out there, the ability to have people working from home be-

comes more of a business need."

Another benefit is increased productivity. Keith Little, a network engineering adviser at American Century, says he telecommutes when he has projects that need his undivided attention. "If I have a bunch of documentation to do.

it's more efficient for me to stay at home than to come in where there's a constant

Highly Committed

Studies confirm that companies with work/life programs, which can include on-site fitness centers, help with child care or paid time for community-based volunteer opportunities, provide an obsention. Bismotoch sent

arrantage, setestector, superpolithers, Each year, Watson Wyrego Bernards Study, "which examines U.S. organizations with 1,000 employees or more. This year, it looked at top performers in 260 companies — those workers who exceeded or far exceeded managers' exyetism of the properties of the peryetism designed their most recent review periods. It found that of those who perpetud having work/life balance, 45% considered themselves highly commisted employees. Of top performers who designed the period of the period of the top of the period of the period period of the one of the period of the considered themselves highly commis-

are have were no estates, note described themselves as highly committed. Finlay can attest to that. She says work/life options create "a very satisfied, hard-working group of employees. I know, and I've had to test this multiple times. When I need people to rally, I've never had a challenge. They're

tweey and willing to gere.

Lisa Adragan has worked at Partners
HealthCare for 21 of the 22 years she
has been out of college. She started as a
full-time programmer and progressed
through various positions and schedules as she gained experience and exnanded her family.

Adragna worked part time, shared a job with another mother, went back to full time when she was promoted to corporate IT manager, and then though the corporate to work as a parer-time sension project specialist after the third of her third chall in 2000. Adragns started working full time again in 2003, athread working full time again in 2003, athread working full time again in 2003.

two days a week. With a solid knowledge of functional groups and institutions under the corporate umbrella and lots of experience with the older systems at the various hospitals. Advance is clearly a valuable

asset to Partners.

But she says she's particularly committed to being a standout employee because of the accommodations she has had over the years. "I see slike! want to prove myself even more because they we given me this fiest-billity! Adragna says. "I want to prove to them that this really works."

Pratt is a Computerworld contributing writer in Waitham, Mass. Contact her at manykpratt@verizon.net.

WE ALL HEARD plenty E VE ALL HEARD PICKY For me the most form nation one commerce nating one compares a

objective a team that needs to be coon digested and a deadline mated and a deadline.

the analogy further Enothal! have long made use of planbooks to ensure accurate communication visual sequencing and coordination among team members enread over a lance area I've found that a playbook can serve the same nurrose for a virtual team.

the same purpose for a working on a small project. My playbook is based on the classic My playroon is cased on on con-issue log Instead of being an inconervent list of problems however it's a graent list of problems, nowever, it's a sequential list of tasks. It county shows being called on and when

By their nature vietual teams much as a collection of feet accepts and conference calls amone team members have a tendency to become disembod ied forums of multiple conversations. divided attention spans and maybem Given that most of my virtual teams are located across the country of around the world. I need a more focreed means of cetting results. The plankook is that moshonism The playbook gives me, as the project

manager a way to continue tasks as tions, issues and a RAM (responsibility assignment matrix) all in one snot. It note team members thinking "What's the next thing I can be doing, and can I do it sooner?" or "What am I waiting on that I should communicate to everyone on the conference call? You could call

nall Projects Only

it a pseudo critical path for dummies. I use a playbook primarily for the small nes - projects of 120 hours or less that are too granular to require a formal



A Small-Project

Here's a way to keep your far-fluing IT team as focused as a football squad

By Tom L. Barnett person or persons to whom it has so be

project schedule, Within Microsoft Deal. eet those are the things that revicable delivered (For example the network might be scheduled as two, or three-line team registers a consur on the network items, better classified as microprojects The Asliverable is the network address. or complex to do's For example within which the sysudmin team needs in ora project achedula I would expect to see a line item for the task "build/configure Web server "Coordings.

ing that task is something I would probably want to mansee with a playbook My playbook has eight columns: Task Name, Description, Due Date, Owner Issues, Deliverables, To, and Waiting On. On the surface it looks fairly straightforward. The real power of the aybook, though, is in defining the deliverable (output) from a task and the

der to accept the server) If a team member isn't able to com-ENTOR time required, he indicates what is holding him up in the Waiting On column to g. "nass-

mored to the database server" or "confirmation of Web server rebow"). This lets everyone on the team know what the problem is and highlights and anplies pressure on the person who needs to complete the action to get things moving again.

The billions bouille in placed toward in The organism number in virtual scams is members to think and not as if they were all in the came man booking at the came all in the same room looking at the sa larly morel for countinating many people early good for coordinating many peop de co ment of the manual II officer

In a simple format it combines the an a sample format, it commons to colle the aminet also (tech list) or source matrix (role assignments) and status report. If there's an issue it's status report. If there's an issue, it's

task that triegered it Although the playbook isn't for large Although the purytoon on mp. small stuff for which a project schedule and other formalities sector comber some it allows me to be opposited and

nimble is forfebries offerte For example when working with the infrastructure team, the application toom and an outside wander to trouble shoot a system's availability problems. we used a playbook to sequence the stees that each team would necform and noted each sten's effect on each other area Planbooks have also led my team through poftware emerades and virus outbreaks, and I have required that they be used for implementing all email to medium-size change enquests Once you've designed a few play-

books for various types of tasks, you'll find that many are virtual terrollater that one he amond with minor effectments Communication is the single most imcommunication is the single most thi or an IT team. That's why many a coach has some to great lengths to protect his planback Once works built a few of your own, you'll understand why.

Barnett is a program director for a large IT services company where he focuses on IT program management for clients. Contact him at tem harnettillearthlink net.



MANAGERS'



POLEN #C2 CONSULTING COM

How can I tell if my group has a

marale problem? I to a not a

- · Seems of work beer and have carmeeting others in the organization. · Six to see, some a unusual boars
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- 1 Ash at a common model and construct
 - Over comment over month a matrix of
- · take a sky and commend of an Mediata and place a community making our some or hir morale-building activity

What is the best approach to final on idea company that were know is going to take total commitment from the series management team to asscuta?

I suspect that there is no one rielit w.is. But there is one You've get to know what sort of persua

one collectively and male ideally Us. Kipne-Schandt Profiles of Organizational Influency Strategies has rebo sever in the resurb interesting

category to a continuous care area bor REASON, tactume others on board by using national arguments. Assumptions and FRIENQUINESS, Go transports as to sup-

cort you because they like you rather than because they agree with your count of your Here your point of view positively produposed toward you

COALITION, Sections others in the organization to support your point of view. The more people who support

communication the experience of and the second second second second continue people to produce

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Assert serve us well. It you would be has a three amountainers a creent idea for the one one often and test the Atestal warth completing some of the other

It you are points to use the person asero a lettle most comment Educacia

Lirst, spend some time petting the impart on players on the same part about the require of the readston (30h ofter confects beyond that should you work on octure them to support the solution. I so often, I see managers trying to name directly to the solution when there is no consensus on the problem. Not

costs. As a titre rest out you the community you need but it often can diminish your scause in the case of your superiors. tomorphism you are try more to their and the same of the same of the same strate. each will probably prove less effective them others, a unsider friendliness. coalmon-building and bargamine as

your primary political avenues. thurs not done. Politics need not be such. I define organizational politics is the process of a group making deci-

You can use these tools for good or ill. Ed suggest that learning to use the nonreason approaches effectively can position you to be a significant force for good in the organization >

BEARING THAT BACK

More on Getting IT Recognized as 'Operations

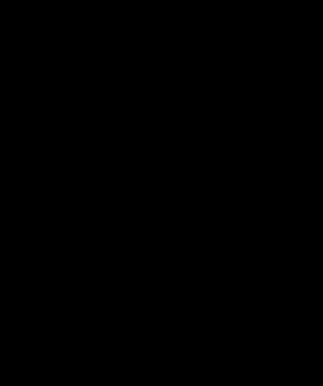
There are two things that did not make it to your remark first, and those hire and business force In my career as a CIO, those ben things have been key Meither cares y te me as a "geek," but for so there led to a couple of positive things. First, at my last CIO ich, I was ego. Paret, as key had told job, it ittee. (A rember of "operational of forers" were not on that committee) Most I amphasized to my IT stall that Next, I emphasized to my II start the at with specific skills that helped support the enterprise Those who of that to baset experienced a great deal of comment and committee because in a number of breader remnant initia-

es as ecual participants with it an occur parce attental meers. Although I had no execute in mind when I started on those two empha ses, their rightness and success first me home to me a few wars non when I was making a presentation an industry conference. I had been and an anterior my sixth year on CVO of the common After the prosentation, there was the usual cues tion period. The first question I wan school was been I could last six unurs as CIO when the industry average at the time was less than two years. I had never really thought about that but the first thine that came to mind hins That was sect of an epiphany for me. other proof of the value of the emehases I was making was when my company was later acquired by a many. All of my key people who wanted to stay were offered ed positions, and most are still

few have even advanced into non-IT nent positions. I think their focus on the business, as well as on building new relationships, was a big So I would add to the list of remedies an emphasis on building when and focusing on the business as key steps for greater IT acceptance. - P.W

there. Some have advanced, and a

metters. P.G.



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---- I tell If any group has a in problem? This is one of se things that you should uet he shie to sense. If you think that your people might have a morale problem, they nave a moras

That said, not everyone is naturally gifted at reading other people's emotion to here are a few ideas. You've probably got a morale problem if your people:

- Arrive at work later and leave carlier than others in the organization
- Are disappearing at unusual hours of the day for "personal business." wearing unusually nice clothing
- Rarely ask you questions. Don't make suggestions.
- Are afraid of you @ Don't trust you.
- Think you're a hypocrite # Don't feel challenged by their work Feel trapped in their current jobs. Have no sense of where the organi-
- zation is going. Don't understand how to make
- Don't feel that you appreciate their efforts.
- point of view. Here, your point of view comes popular because others feel progress in their careers.
- ort you because they like you rather than because they agree with your positively predisposed toward you. COALTION. Getting others in the sization to support your point of view. The more people who support

and nobody wants to participate, your

people are probably completely normal

What is the heat success to

first on bigs properly that you

alternal from the senior

monoment from to come

I suspect that there is no one

right way. But there is one key principle: Know your audience

You've not to know what sort of nersus

sion works best on your senior manag-

ers. collectively and individually.

The Kipnis-Schmidt Profiles of

Organizational Influence Strategies

describe seven ways people in organi-

BEAGON. Getting others on board by us-

FREEDLESS. Getting others to sup-

ing rational arguments. Assumptions and

logic guide others to your point of view

rations try to influence one another

know is going to take total

your perspective, the easier it is no over even more people to go along. nesting for what you want. If you give gottating for what you want it you

agree to give you what you want. along with you by the force of your dealong with you by the force of your de

with you or not as lone as they comply ADDEAL TO HOUSE AUTHORITY COMting a higher authority to support your position Once your position is adopted but he have it's much entire for my to net things going or for the bose to do.

the influencing on your behalf. ishments to get others on board If was have the shilling to impose conctions nave the actinty to impose sanctions, the coercive power of your incentives (positive and perstive)

So the question is, which of these will work hest when floating an idea up

to senior management? First we need to recognize our personal biases with respect to the strate-

gies we choose. In general, as geeks, we fail and that they will be out of a job like reason. Logic rules! We see other anomaches as just univ politics. Unfortunately this attitude ofter doesn't come us well If you really be-

lieve that something is a great idea for the openization and was need to get the support of senior management, it's worth considering some of the other

influence strategies If you are going to use the reason apneed the most common). I'd suppost

a two-sten strategy First, spend some time getting the important players on the same page about the nature of the problem. Only after you've achieved that should you work on cetting them to support the solution. Too often, I see managers trying to iumo directly to the solution when there is no consensus on the problem. Not only does this not get you the support you need, but it often can diminish your

stature in the ever of your superiors. Given that you are trying to float an idea upward, some of these strategies will probably prove less effective than others. Consider friendliness, coalition-building and bargaining as

your primary political avenues.

While this may seem crass, it's how things get done. Politics need not be usely. I define organizational politics as the process of a group making deci-

sions, That's it. You can use these tools for good or III. I'd suggest that learning to use the nonreason approaches effectively can position you to he a significant force for good in the organization.

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udactoring Feb. 12-55 Oriente er: ARC Advisory Group Inc. cetive Maguilacturing Strategies. Driving Performance in the Flat World includes presentations on benchmarking for continuous ent, best practices for m aging change, meeting government ons, implementing plantwid tices in packaging machinery, and ne innovations driving producPAUL INGEVALDSON

IT, We Have A Problem!

ECENTIV I was asked to be a substitute instructor for two sessions of a class in the professional MRA program at a local university. The class is called "Management of Information Systems Technology" and is mandatory to receive the degree. I was really excited shout the opportunity. Here was my chance to explain to business students how to interface effectively with IT. At the very least I thought these grad students would better understand the IT world.

In my first class, I asked the students what they thought of their IT departments. Only one of the students was an IT practitioner. What I got back from the rest were the usual stereotypes that have existed for as long as I've been in the the need for change orders

field: IT doesn't under stand the business; projects take too long systems never do what we want them to do; projects are never completed on time: 1 can't understand them vadda, vadda, vadda,

Now I was really excited What an opportunity! So Liamped right in I talked about the role of the steer ing committee I talked about the need for the users to spend time to define

the system requirements, I discussed scope creep and the desire for IT to satisfy the users. I cited the November 2002 Harvard Rusiness Review article by Jeanne Ross and Peter department to develop the ROI for a

Weill titled "Six FT Decisions Your IT People Shouldn't Make." I talked at length about the need for the user project, since the savines will come from the use of the system. I explained the project development life cycle and how the users need to participate if the project is to be successful. I explained when significant alterations to the specs are required. At least these people would understand how to ensure IT project success. My second session as a substitute coincided with the last meeting of the class. My tonic was IT governance. I was pumped. We had had a lot of discus-

sion about the need for collaboration between FT and the users, and I felt I had eatten through to them. So at the end of the class.

Lasked "How has your image of IT changed after 32 hours of class time?" Locald hardly wait to hear those little nuevets of understanding But my hopes were quickly dashed.

With the exception of one student, who indicated that he better understood what the users' roles should be, the remainder of the students said that their image of IT had not changed at all. One student remarked that he still didn't understand why IT isn't completely responsible for a project just

like he is for projects in his department. I reminded him of the main reason. which I had used in my Donor-Point presentation on povernance: An IT system door not belong to IT. An IT custom belones to the user department. But it was to no swall Most of the students had not understood how IT diffore from other departments and were still comfortable in their stereotypes. Durbane the comments became stanted once the first student took the nochange position and the rest followed Or perhaps they did get a subconscious understanding that will emerge once

they are back in the office environment Nevertheless it was a soberine experience. If this group can be used as a walled measure our image and remutation have not changed much ower the water. These students all had undergraduate husiness degrees and at least five years of business experience Imagine how non-business-schooled people might feel about IT

I think we should take this experianno enriquely CTOs should develop a much stronger program to explain the arcane aspects of IT and do so on a continuing basis. Perhans we need to embed IT staffers in user departments or maybe vice versa. Perhans we need to better market the successes of IT. Maybe we need formal relationship building exercises, or perhaps we need

to try all of the shove Whatever the solution, it's clear to me that what we have been doing is not working. Someone said that the definition of insenity is doing the same thing over and over again and expecting different results. We can no longer ignore this problem and let it fester throughout the user community. It's time to address it proactively and improve the reputation and effectiveness of our IT departments.

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wao is an inacpenses The private sector faces similar throats and has already become to adopt some of the practices the DSR is likely to send to the Dentagon cold John Boscotore on information security analyst at Cartoer Inc. The same risks also apply to software develoned in the U.S. he added. This is a major concern but

not just when it goes offshore." Percatore said. He called the focus on offshore developers "supposhobia" but said the softactionated but said the soil by the DOD should serve as a useful wake-up call for all organizations that buy software.

Lucky amend that a rick mists with ITE developed exists with 0.3. developed software but said it is greater The goal for years should be the goal on users sected to to make importance trade-ous the accommiss of developing -Course be said for several mahana risks could be greatly reduced by howing only people mish II Committee absorption write software but that would

boost software development contra be about to 10 times an costs by taree to The DSB tack force which THE DOD COM FORCE, WHI Programm in October 2005 has hose deliberation in corner However, its report will be unclassified and is scheduled to he made available to the public

soon after the first of the war. Protective Measures I reductive measures

Lucky decimed to comme recommend But in menune to industry fears he said that is something the settle of the section ware used by the DOD to be developed in the ITS Meanwhile he cited the following measures or worth-



The problem is we have a strategy now for net-centric warfare eventhing is connected DOSEST HICKY

anatum of anablams

In Winkler outhor of the

book Spies Amone Us (Wiley

2005) and a former analyst at

and the she binds of mos

sures outlined by I sucky may

the National Security Agency.

a Bosoviniano acoma anticomo imwhich multiple penerammers which multiple programmers Unament that increases done

enment costs. Lucky noted Running scan tools that Venneth Fries undersorm look for dangerous code hid. den in software "Fast they're imperfect "Lucky said "They can't find everything." Findancing industry stan. dands that can contribute to quality software code — for example the Common Crite. ria etandande officially known face if code were compro ne ISO 15409 for exploration

information security "It's almost an insolvable problem to think you can find all the possible problem with code " I welve said "When was one do though is mice the har Through inspection

and testing and so forth was con eliminate a certain net-

be seeful but that there is a much more obvious step. "If there is one line of code written ownerseas that's one line too many." Winkler said Theseloping it in the U.S. is not perfect, but we are talking about an exponential increase in risk by moving it overseas." Winkler sold the II C now.

ernment typically buys systems that bundle the bardware an operating system, a datahase and other components in addition to the application code. "You can put back doors and Trojans in any layer of the custom code," he warned.

Indeed, the upcoming report is a follow-on to one released last year that detailed the risks of procuring microchips from foreign suppliers. The DSB called that practice "directly contrary to the best interest of the DOD" and wrote that "opportunities for adversaries to clandestinely manipulate

and recommend and inconscine C COOR MINUS AND MALICAGON nowever, the buy Ameriit cann would have been With al once would have been. Y the gooding attout of the 11 mountry, many O.S. sortware oppositions and many house operations, and many never

working for them in the U.S. In addition name coftware A spokesman for the DOD is based on interreted eats of enid it couldn't comment on monte that any double the recoming report last week. components that are never-The report was requested by and would be difficult to tease spart if a U.S. confe percura. tem of defence for consisition ment policy were adopted technology and logistics, who Phillip Bond, president of the Information Technology sharshe DOD needed a better A respection of America, said understanding of how much Greenstanding or now much is embedded in its outcome and the risks the military would

Association of America, cost ne expects the DSB task force con assign varying risk levels to software with different non curement roles for each level "The denser would be if they deem too risky most com - contain a few and have no to almost any coffware there is some piece, some lines of code written somewhere else around the mortd " he raid

Road said st. TTA A has Strategic and International Courties in Washington to conduct its own examination of the risks nosed by ourseast software development. The ITAA expects that study to be completed at about the same time the DSR issues its report. Percatore recommended

that the DOD and other maers deploy tools that scan software for vulnerabilities and perform "fuzz" testing, in which programs are deluged with streams of random data intended to evoke every possible response they can make

But no single measure is likely to completely safeguard coffeeen I who continued There are very clever thines. that can be done," he said, "And we're talking about complexity that boggles the mind. It's so enormous that no one can truly understand a program with mil-

while protective steps: Simpler IT Approach Needed, Former CIO Says

contract CIO who now is an advisor to its Business Trans-termation Agency, has told the DOD that it could halo solve its applicatring its vest porticals

stems - for which the is are frage tall classified -OD currently has about 3,70 ms, including 174 supporting

ion to S aft one at a time, he said, and at have their own communica on as loss and

no at least 5.700 points of valuer ability on the business side, and very low of them can be adequately de-lended," said Stresswere, who also

And the problem just lescon grow ing the claimed. Each time a new ag plication is needed, the DOD tends to bur yet another one-off systems

they are CK - particularly when the program manager is raised on severes and cost, and recur enn't show up as a men

that the DOD significant remaining systems could afford at be made robust, reliable and secu way to do that is by disploying a alt on top of the SCA

no said And he reted it was be easier to protect a perficular sensitive application by moving do to one of the DOTTe me

technology used in critical U.S.

EDANK HAVES . EDANKIV SPEAKING

Disruptors

SITFAIR to lump a whistleblower in with the people he blows the whistle on? No, and I was wrong to give that impression when I wrote recently about Kaiser Permanente's problems with its multibillion-dollar electronic health records (EHR) system and the employee who raised a sink about it.

Readers pointed out that Justen Deal, the 25-year-old project supervisor who e-mailed a memo about those problems to 180,000 Kaisen Fermanente employees, shouldn't be classed with CEO George Halvorson and ex-CIO Cliff Dodd, who pushed the troubled system and now face a financial jut and unsettions of conflict of interest

They're right. The guy who spotlights the problem is disruptive

but not in the same way as the people who caused the problem.

 Dut HOL III the Same way as the p And as Computerworld reporter Linda Rosencrance has learned, the EHR system, HealthCon-

nect, is plenty disruptive on its own.

A Kaiser IT employee sent Rosencrance a 722-page internal Kaiser report confirming Deal's claims that HealthConnect continues to have continues that frustrate users and in some cases.

Compromise patient care.

Kaiser says Deal is not an IT staffer, just a guy
who works on health education publications. But
IT people familiar with HealthConnect say the
problems Deal cites are real — and were predicted when the technology for HealthConnect was
reinfally considered and reisceted by Kaiser's IT

organization.

They also confirm that Halvorson and Dodd overrode that rejection and pushed through their technology choice for the system.

And no one disputes that within a week of

Deal's e-mail, the CIO was gone. Kaiser insists there's no connection between the two events — despite the suspicious timing and the lack of

— despite the suspicious timing and the lack of any other explanation for the sudden departure In short, Deal isn't a crank or technically naive. He's a credible whistleblower throwing a spotlight

on gessains problems.
So why did I line up tech-savvy
CEO Halvorson, tigh-with-the-boss
CIO Dodd and whistleblower Deal
together, suggesting that "these people have brought Kaiser what appear
and damaging publicity" and that
TIT needs people with these qualities.
Not these people, maybe, and certainly not these results?

If you're a manager, you already know the answer. Sweetheart deals, conflicts of interest, cover-

Whistleblowers create problems, too. In fairness, it's a different sort of problem, arguably a good kind of problem. Sometimes it's impossible to start cleaning up a mess until someone stands up and loudly declares that there is a mess. With out that first step, the mess will remain. The the newble still discussive in the bakes

everything up, sucks up time and attention, distracts us from the productive work we need to do. It's easy to say that we don't want people who gin up sweetheart deals or profit from conflicts of interest or cover up wrougdoing. It's toucher to admit that we don't veally want

whistleblowers, either.
But it's true. We don't want the problems that
sput whistleblowers, and we dread the chaos that
is sure to follow in their wake. Whistleblowers
are inconvenient. They stir up trouble. They're a
nain in the butt.

And when they're needed, they truly are needed.

And we still won't like it. That's

reality. That's us.

Which brings us back to Kaiser.
Yes, without HealthConnect's
problems, there'd he no need for a
whistleblower like Justen Deal. And
with those problems, Deal's whistle-

blowing may be an essential step in fixing them. It's not a mess he created. He doesn't deserve to be lumped to-

gether with those who did.

But it's still an ugly, disruptive
mess. And until it's finally cleaned
up, most of us will just he glad we're
not the ones taking the lumps. *





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